

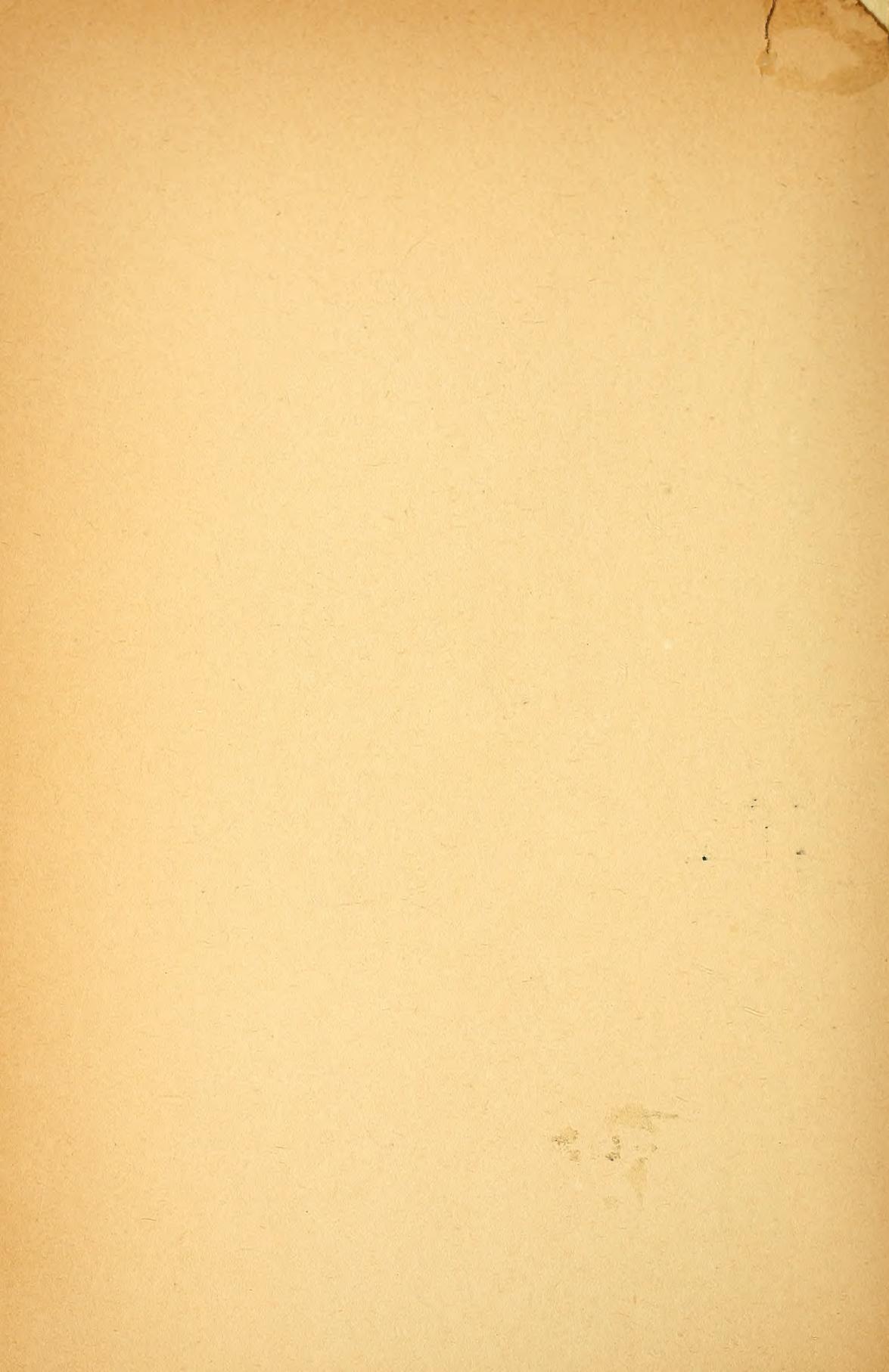
N 163
Botany

朝鮮森林植物編

(第貳拾輯)

竹	科
楊	科
胡	科
木	科
蘭	科

朝鮮總督府林業試驗場



ERRATA

Pag.	17,	lin.	16.	Loco	<i>Owatarrii</i>	lege	<i>Owatarii</i> .
"	46,	"	24.	"	内釋、外釋	"	内額、外額、
"	54,	"	13.	"	すずみたげ	"	すずだけ、
"	97,	"	27.	"	anatro-pum	"	anatropum
"	108,	"	4.	"	1871	"	1817.
"	116,	"	11.	"	&	"	A.
"	120,	"	10.	"	Chukoku	"	Chuhoku.

Flora Sylvatica Koreana

Pars XX.

Bambusaceæ.

Myricaceæ.

Juglandaceæ.

Magnoliaceæ.

By

T. NAKAI, Dr. Sci.

Professor of Systematic Botany, Director of Botanic Gardens,
Tokyo Imperial University.
Government Botanist of Chosen.

Published

By

The Forest Experiment Station,
Government General of Chosen,
Keijyo, Japan.

Dec. 1933





朝鮮森林植物編

(第貳拾輯)

竹	科	
楊	梅	科
胡	桃	科
木	蘭	科

朝鮮總督府林業試驗場

序　　言

本研究ハ東京帝國大學教授理學博士中井
猛之進ニ依囑シ完成シタルモノニシテ學術
並產業上參考ニ資スベキモノアルヲ信ジ之
ヲ印刷ニ附ス。

昭和八年五月

朝鮮總督府林業試驗場長

林學博士　鏘　木　德　二

緒 言

本編ハ朝鮮内ニ自生シ又ハ廣ク栽培スル竹科植物、楊梅科植物、胡桃科植物、木蘭科植物ニ就テ詳論ス。

竹科植物ハ全世界中亞細亞ノ東部、南部ニ於テ最モ分化發達シ特ニ内地ニアリテハささ類、めだけ類、あづまさ類ノ種類ハ其數多ク自生種モすずだけ類、やだけ類ヲ合スレバ 130 種ヲ超ユ。内地產竹類ノ研究ハ主トシテ理學博士牧野富太郎氏ニ依ツテナサレタリ。氏ハ 40 年來日本產ノ竹類ノ闡明ニ盡力セラレシモ其研究サレタル標本ハ皆氏ノ私藏スル所ニシテ吾人ハ單ニ氏ノ記相文ニ依リテ其研究ノ 1 端ヲ窺ヒ得ルノミ故著者ハ大正 12 年頃ヨリ單獨ニ其研究ヲ思ヒ立チ大正 14 年佛蘭西ニ滯在中巴里ノ國立科學博物館ニテ研究ノ端ヲ開ケリ。巴里ノ國立科學博物館ハ故 L. SAVATIER 氏ノ採收シ故 A. FRANCHET 氏ノ研究セシ日本產ノ竹類、故 U. FAURIE 氏ガ日本ニテ採收シ墳土利國ノ故 E. HACKEL 氏ノ研究セシ標本、故 E. C. CAMUS 氏ガ其著竹類篇ニ載セタル日本產ノ竹類ノ標本、1900 年佛蘭西國巴里ニ開カレシ萬國博物館ニ我邦ヨリ出品シタル日本產ノ竹類ノ標本、其他内外ノ竹類ノ標木ヲ最モ多數ニ藏シ居ル故此所ニ於テ當時著者が疑問トシ居リシ諸點ヲ研究シめだけ類ト新高めだけ類トガ新屬ナルコトヲ知リ尙ホささ類ノ分布ト近似屬トノ區別ヲ明カニセル論文 1 編ヲ草シ Two New Genera of *Bambusaceæ*, with special remarks on the related genera growing in Eastern Asia ト題シテ Journal of the Arnold Arboretum 第 6 卷ニ發表シ置ケリ、其後モ標本ノ蒐集ト研究トヲ續ケ之ニ依リテ今回朝鮮產ノ竹類ヲ記述シ得ル基礎ヲ作ルヲ得タリ。ルコント

著者ガ巴里滯在當時巴里科學博物館顯花植物部ノ主任タリシ LECOMTE 教授ハ著者ニ同館所藏ノ標本ト圖書トヲ自由ニ使用セシメテ研究上ニ至大ノ便ヲ與ヘラレタリ深ク同氏ノ厚意ヲ謝ス、牧野博士ハ屢々同氏ノ研究ノ結果ニ就テ懇篤ナル説明ヲ與ヘラレ爲メニ著者ノ疑問ノ水解セシ事多シ茲ニ深キ感謝ト敬意トヲ表ス。又澤田武太郎、糸山泰一ノ兩氏ハ帝大圖書館ニナキ所藏ノ樹木類ノ參考書ヲ貸與サレ著者ノ研究ヲ援ケラレタリ併セテ感謝ノ微意ヲ表ス。

昭和八年四月

於東京帝國大學理學部植物學教室

嘱託 中井猛之進

目 次 Contents.

	頁
竹 科 Bambusaceæ.	1
(一) 主要ナル引用書類 Principal Literatures cited.....	1
(二) 朝鮮產竹科植物研究ノ歴史 History for the Investigation of Korean <i>Bambusaceæ</i>	7
(三) 朝鮮產竹類ノ効用 Economic Uses of Korean Bamboos and Sasas. 8	
(四) 朝鮮產竹科植物ノ分類 Classification of Korean <i>Bambusaceæ</i>	9
(五) 朝鮮ニ自生又ハ栽培スル竹類ノ和名、朝鮮名、學名 ノ對稱表 Japanese and Korean Names of each species of Korean <i>Bambusaceæ</i>	53
(六) 朝鮮ニ自生スル竹類ノ分布 Distribution of wild species of <i>Bambusaceæ</i> in Korea.	54
楊 梅 科 Myricaceæ.	56
(一) 主要ナル引用書類 Principal Literatures cited....	57
(二) 朝鮮產楊梅科植物、研究ノ歴史ト其効用 History for the Investigation, and Economic Uses of Korean <i>Myricaceæ</i>	59
(三) 朝鮮產楊梅植物ノ分類 Classification of Korean <i>Myricaceæ</i>	59
胡 桃 科 Juglandaceæ.	66
(一) 主要ナル引用書類 Principal Literatures cited....	67
(二) 朝鮮產胡桃科植物研究ノ歴史 History for the Investigation of Korean <i>Juglan-</i> <i>daceæ</i>	71
(三) 朝鮮產胡桃科植物ノ用途 Economic Uses of Korean <i>Juglandaceæ</i>	72
(四) 朝鮮產胡桃科植物ノ分類	

Classification of Korean <i>Juglandaceæ</i>	72
(五) 朝鮮產胡桃科植物ノ和名、朝鮮名、學名ノ對稱 Japanese and Korean Names of each species of Korean <i>Juglandaceæ</i>	88
(六) 朝鮮產胡桃科植物ノ分布 Distribution of wild species of <i>Juglandaceæ</i> in Korea	88
木蘭科 Magnoliaceæ.	89
(一) 主要ナル引用書類 Principal Literatures cited	90
(二) 朝鮮產木蘭科植物研究ノ歴史 History for the Investigation of Korean <i>Magnoliaceæ</i>	95
(三) 朝鮮產木蘭科植物ノ効用 Economic Uses of Korean <i>Magnoliaceæ</i>	96
(四) 朝鮮產木蘭科植物ノ分類 Classification of Korean <i>Magnoliaceæ</i>	97
(五) 朝鮮產木蘭科植物ノ和名、朝鮮名、學名ノ對稱表 Japanese and Korean Names of each species of Korean <i>Magnoliaceæ</i>	126
(六) 朝鮮產木蘭科植物ノ分布 Distribution of wild species of <i>Magnoliaceæ</i> in Korea	126

竹 科
Bambusaceæ Link

(一) 主要ナル引用書類

著者名	書名
v. B. BALANSA	1) Catalogue des <i>Graminées de l'Indo-Chine Francaise, Bambusées</i> in MOROT, Journal de Botanique IV p. 27-32 (1890).
C. D. BEADLE .	2) <i>Bamboo</i> in BAILEY, Cyclopedia of American Horticulture I p. 126-130 (1900).
"	3) <i>Bamboo</i> in BAILEY, Standard Cyclopedia of Horticulture I p. 444-449 (1914).
G. BENTHAM & J. D. HOOKER	4) <i>Gramineæ-Bambuseæ</i> in Genera Plantarum III p. 1076-1077, 1094-1095, 1207-1215 (1883).
E. C. CAMUS	5) Les <i>Bambusées</i> p. 1-215, Pl. I-100 (1913).
E. C. CAMUS & A. CAMUS	6) <i>Sasa—Neobouzeana</i> in Flore Générale de l'Indo-Chine, Tome VII p. 581-650 (1923).
J. C. DOELL	7) <i>Gramineæ-Bambusaceæ</i> in MARTIUS, Flora Brasiliensis II pt. 3 p. 161-220 t. 44-56 (1880).
S. ENDLICHER	8) <i>Gramineæ-Festucaceæ-Bambuseæ</i> in Genera Plantarum I p. 102-103 (1836).
"	9) <i>Phyllostachys</i> in Genera Plantarum, Supplementum III, p. 58 (1843).
A. FRANCHET & L. SAVATIER	10) <i>Phyllostachys bambusoides—Bambusa Kumasasa</i> in Enumeratio Plantarum Japonicarum II pt. 1, p. 182-184 (1876).
J. S. GAMBLE	11) The <i>Bamboos</i> of the Philippines Islands in The Philippine Journal of Science, Botany V no. 4 p. 267-281 (1910).
"	12) The <i>Bambuseæ</i> of British India in Annals of the Royal Botanic Garden, Culcutta VII p. 1-133, Index et Pl. I-119 (1896).
E. HACKEL	13) <i>Gramineæ-Bambuseæ</i> in ENGLER & PRANTL, Die Natürliche Pflanzenfamilien II Abt. 2, p. 89-97 (1887).
"	14) <i>Gramineæ-Bambuseæ</i> in Bulletin de l'Herbier Boissier VII p. 716-721 (1899).
B. HAYATA	15) <i>Arundinaria Kunishii—Bambusa tuloides</i> in Icones Plantarum Formosanarum VI p. 136-153 (1916).
"	16) <i>Arundinaria Kunishii—Schizostachyrum acutiflorum</i>

in *Icones Plantarum Formosanarum VII* p. 94-95 (1917).

S. HONDA 17) *Chikuruihen* p. 1-326 (1917).

J. D. HOOKER 18) *Arundinaria Simonii* var. *variegata* in *Botanical Magazine CXVI* t. 7146 (1860).

J. HOUZEAU de LEHAIE 19) Le *Bambou*, son étude, sa Culture, son Emploi in *Bulletin périodique Vade-Mecum et Intermédiaire de tous les Amis des Bambous.* No. 1 p. 1-40 (Jan. 1906); No. 2, p. 41-72 (Feb. 1906); No. 3 p. 73-92 (Avr. 1906); No. 4. p. 93-124 (1906); No. 5 & 6, p. 125-170 (Dec. 1906); No. 7 & 8, p. 171-222 (Juin 1907); No. 7 & 10, p. 225-295 (Juin 1907).

„ 20) Die in Deutschland angepflanzten, mittlere Wintertemperaturen vertragenden *Arundinaria*-Arten, in *Mitteilungen der Deutschen Dendrologischen Gesellschaft XV1*, p. 223-227 (1907).

„ 21) La Culture des *Bambous* en France, in *Bulletin de la Société Dendrologique de France* No. 16 p. 63-69 (1909).

„ 22) Notes sur la systématique des *Bambusées* in *Actes du III^e Congrès International de Botanique, Bruxelles, II* p. 186-234 Pl. XLVIII-LVII (1910).

K. KOCH 23) *Gramineæ-Bambuseæ* in *Dendrologie II* pt. 2, p. 353-361 (1873).

C. KUNTH 24) Considérations générales sur les *Graminées*, in *Mémoires du Muséum d'histoire naturelle II* p. 62-75 (1815).

J. LINDLEY 25) *Gramineæ* in *An Introduction to the Natural System of Botany* p. 292-304 (1830).

„ 26) *Bambusa* in *The PENNY, Cyclopaedia III* p. 355-357 (1835).

„ 27) *Gramineæ* in *A Natural System of Botany* p. 369-383 (1836).

H. F. LINK 28) *Gramineæ sect. 7. Bracteifloræ* in *Handbuch der Erkennung der nutzbarsten und am häufigsten vorkommenden Gewächse I* p. 95 (1829).

„ 29) Fam. XXIX. *Bambusaceæ* in *Hortus Regius Botanicus Berolinensis II* p. 308 (1833).

CONRAD LODDIGES & SONS 30) *Bambusa nigra* in *Catalogue of Plants* p. 4 (1823).

T. MAKINO

31) *Bambusaceæ Japonicæ* in Tokyo Botanical Magazine XIV p. 20-24, 30-32, 50-55, 67-68, 80-82, 95-100 (1900).

32) *Bambusa palmata*—*Phyllostachys mitis* var. *heterocycla* in Tokyo Botanical Magazine XIV, Article in Japanese, p. 61-64 (1900).

33) *Sasa*—*Arundinaria variegata* Tanakæ in Tokyo Botanical Magazine XXVI p. 11-28, fig. 1-VII (1912).

34) *Chimonobambusa*—*Shibataea* in Tokyo Botanical Magazine XXVIII p. 153-155 (1914).

35) *Sasa Tokugawana* in Journal of Japanese Botany I no. 2 p. 6-7 (1916).

36) *Semiarundinaria*—*Arundinaria Matsunoi* in idem II no. 2 p. 7-8 (1918).

37) *Sasa Shimidzuana*—*Arundinaria variegata* var. *Tsumorii* in idem II no. 4 p. 15-16 (1920).

38) *Arundinaria yamakitensis* in idem III no. 1, p. 4 (1926).

39) *Pleioblastus yamakitensis*—*Phyllostachys bambusoides* var. *aurea* forma *alternato-lutescens* in idem III no. 3 p. 11-12 (1926).

40) *Sasa hamoensis*—*Sasa Hayatae* in idem III no. 4 p. 16 (1926).

41) *Sasa Hisauchii*—*Pleioblastus chino* var. *viridis* forma *glabra* in idem III no. 6 p. 22-23 (1926).

42) *Sasa Okudana*—*Sasa hidaensis* in idem III no. 12 p. 45-46 (1926).

43) *Sasa tanzawana*—*Pleioblastus Sawadai* in idem IV no. 1, p. 2-3 (1927).

44) *Semiarundinaria Kagamiana*—*Pleioblastus kongosanensis* in idem V no. 2 p. 2-10 (1928).

45) *Pseudosasa*—*Sasa matsushimensis* in idem V no. 4 p. 15-16 (1928).

46) *Sasa agrestis*—*Sasa Komiyamana* in idem V no. 5 p. 20-21 (1928).

47) *Sasa kurilensis* var. *Uchidai*—*Pleioblastus higoensis* in idem V no. 10 p. 41-44 (1928).

48) *Pleioblastus Masamuneanus* in idem VI no. 1, p. 5 (1929).

T. MAKINO 49) *Sasa cernua*—*Yadakeya Owatarii* in idem VI no. 7, p. 12-16 (1929).

“ 50) *Sasa Unoi* in idem. VI no. 8, p. 19-20 (1929).

“ 51) *Sasa oshidensis*—*Sasa spiculosa* var. *subpubescens* in idem VI no. 9, p. 21-24 (1929).

“ 52) *Sasa pubiculmis*—*Sasa asagishiana* in idem VI no. 10 p. 25-26 (1929).

“ 53) *Sasa amagiensis* in idem VII no. 8, p. 22-23 (1931).

“ 54) *Sasa Kurokawana* in idem VII no. 9 p. 27-28 (1931).

“ 55) *Sasa oseana* in idem VII no. 10 p. 32 (1931).

M. MAEDA 56) Môsôtchiku no Kwaikwa oyobi Mishô nae Saibaki in Journal of Japanese Botany I no. 9 p. [228-238] (1917).

T. MAKINO & K. SHIBATA 57) On *Sasa*, a new genus of *Bambuseæ*, and its Affinities in Tokyo Botanical Magazine XV p. 18-31, pl. 1 (1901).

T. MAKINO & H. Shirasawa 58) Icones of the *Bamboos* of Japan, pl. 1-15 (1912).

E. D. MERRILL 59) *Arundinaria*—*Dinochloa* in An Enumeration of Philippine Flowering Plants I fasc. 1 p. 94-101 (1922).

A. MICHAUX 60) *Arundinaria* in Flora Boreali-Americanica I p. 73-74 (1803).

F. A. W. Miquel 61) *Gramineæ* Trib. X. *Bambusaceæ* in Annales Musei Botanici Lugduno-Batavi II p. 284-286 (1866).

C. F. MEISSNER 62) *Gramineæ*—*Festucaceæ*—*Bambuseæ* in Plantarum Vascularium Genera I p. 425-426 (1836).

C. MUNRO 63) A Monograph of the *Bambusaceæ* in Transaction of the Linnaean Society XXVI p. 1-157 pl. I-VI (1868).

H. MUEHLENBERG 64) *Arundinaria* in Descriptio uberior Graminam et plantarum Calamariarum Americæ septemtrionalis indigenarum et cicurum p. 191-192 (1817).

T. NAKAI 65) *Gramineæ*—*Bambuseæ* in Flora Koreana II p. 377-387 (1911).

“ 66) *Sasa coreana* in Tokyo Botanical Magazine XXXI p. 4 (1917).

“ 67) Two New Genera of *Bambusaceæ*, with special remarks on the related genera growing in Eastern Asia, in Journal of the Arnold Arboretum

VI p. 145-153 (1925).

” 68) *Bambuseæ* of Hokkaido and Saghaline, in MIYABE & KUDO, Flora of Hokkaido and Saghalien II, in the Journal of the Faculty of Agriculture; Hokkaido Imperial University XXVI pt. 2, p. 180-195 (1930).

” 69) *Sasamorpha amabilis*—*Sasa villosa*, in Notulæ ad Plantas Japoniæ & Koreæ XLI, in Tokyo Botanical Magazine XLVI, p. 37-53 (1932).

” 70) Take to Sasa, in Rika Kyôiku XV no. 5, 21-27, no. 6 p. 66-77 (1932).

C. G. NEES ab ESENBECK 71) *Bambuseæ* Brasilienses, in Linnæa, IX p. 461-495 (1834).

G. NICHOLSON 72) *Arundinaria*, in The Illustrated Dictionary of Gardening I p. 118 (Sept. 1888); *Bambusa* in l. c. p. 155-156; *Phyllostachys* in l. c. III p. 114 (Dec. 1888).

V. NOHL 73) Die *Bambuseen* auf der Insel Mainau, in Mitteilungen der Deutschen Dendrologischen Gesellschaft XXV p. 96-103 (1915).

” 74) Die *Bambuseen* auf der Insel Mainau, in Mitteilungen der Deutschen Dendrologischen Gesellschaft XXIX, p. 75-77, Taf. 13-14 (1920).

S. OKAMURA 75) Keien Chikufu I-V cum appendice (1828).

C. H. PERSOON 76) *Miegia*, in Synopsis Plantarum I p. 101-102 (1805); *Bambos* in p. 393.

E. REGEL 77) *Bambusa aureo-striata* & *B. argenteo-striata*, in Gartenflora XIV, Taf. 3-5 (1865).

A. B. RENDLE 78) *Gramineæ-Bambuseæ*, in Journal of Linnaean Society XXXVI. p. 434-449 (1904).

A. REHDER 79) *Gramineæ-Bambuseæ*, in A Manual of Cultivated Trees and Shrubs hardy in North America p. 69-75 (1927).

A. J. RETZIUS 80) *Bambos*, in Observations Botanicæ sex fasciculis comprehensæ, V p. 24 (1789).

A. RIVIÈRE & C. RIVIÈRE 81) Les *Bambous* p. 1-364 (1878).

J. J. ROEMER & J. A. SCHULTES 82) *Gramina Bambusacea*, in Systema Vegetabilium II p. 850 (1817).

F. J. RUPRECHT 83) *Bambuseas* Monographice exponit, p. 1-74, t.

I-XVIII (1839).

J. F. RUPRECHT 84) *Chupp-Tatt*, ein neues in Russischen Reiche wildwachsendes Bambusrohr, in Bulletin Physico-Mathématique de l'Académie de Saint-Pétersbourg 2 sér. VIII p. 121-126 (1849).

G. E. RUMPHIUS 85) *Arundarbor nigra*, in Herbarium Amboinense IV p. 18 (1743).

E. SATOW 86) The Culture of *Bamboo* in Japan, in Transaction of Asiatic Society of Japan XXVII pt. III p. 1-127 (1899).

Fr. SCHMIDT 87) *Arundinaria kurilensis*, in Reisen im Amurlande und auf der Insel Sachalin, in Mémoires de l'Académie Impériale des Sciences de St. Petersb. VII sér. XII, no. 2 p. 198 (1868).

J. C. D. Schreber 88) *Bambusa*, in Genera Plantarum ed. VIII p. 236 no. 607 (1789).

J. A. SCHULTES & J. H. SCHULTES 89) *Bambusa*, in Systema Vegetabilium VII p. 1337-1355 (1830).

P. F. de SIEBOLD 90) *Bambos*—*B. gymneisasa*, in Synopsis Plantarum Oeconomicarum Universi Regii Japonici p. 4-6 (1830).

P. F. de SIEBOLD & J. G. ZUCCARINI 91) *Phyllostachys*—*P. bambusoides*, in Abhandlungen der II Classe der Akademien der Wissenschaften, München, III Band, Abth. III p. 745-749 Taf. V. 3 (1843).

E. SPACH 92) *Arundinaria*—*Beesha*, in Histoire Naturelle des Végétaux XIII, p. 220-235 (1846).

E. G. STEUDEL 93) *Phyllostachys megastachya*, in Flora XXIX no. 2, p. 21 (1846).

" 94) Gramineæ Trib. XI, *Bambusaceæ*, in Synopsis plantarum Glumacearum I p. 329-339 (1855).

I. TSUBOI 95) Illustrations of the Japanese Species of *Bamboo* (1914).

H. ZOLLINGER 96) *Bambusa*, in Systematisches Verzeichniss der in indischen Archipel in den Jahren 1842-1848 gesammelten sowie der aus Japan empfangenen Pflanzen 1 Heft, p. 56-57 (1854).

W. J. BEAN 97) Hardy *Bamboos* in Gardners' Chronicle 3rd ser.

XV p. 167-168 fig. 17 (Feb. 1894).
,, 98) A Classification of Hardy Bamboos in Gardners' Chronicle 3rd ser. XV p. 238-239 fig. 26 (Feb, 1894); p. 301-302 fig. 35 (March 10. 1894); p. 368-370 fig. 45, 46 (March 24, 1894); p. 431 fig. 52, 53 (Apr. 7. 1894).
DAVID G. FAIRCHILD 99) Japanese Bamboos and their Introduction into America in U. S. Department of Agriculture. Bureau of Plant Industry—Bulletin No. 43. 34 pages pl. I-VIII (1903).

(二) 朝鮮產竹科植物研究ノ歴史

1910 年ニ至ル迄朝鮮ノ竹類ニ關シ學術的研究ヲナシタル何等ノ報告ナシ。

1911 年ニ至リ著者ハ内山富次郎氏ノ採收品ニ基キ Flora Koreana 第 2 卷ニやだけ、まだけ、ごまだけノ 3 種ガ朝鮮ニアル事ヲ記ス。

1914 年拙著濟州島植物調査報告書ニやだけトすずだけトガ濟州島ニ自生スルコトヲ記セシガすずだけト記セシハたんざさノ誤ナリ。

同年、莞島植物調査報告書ニすずだけガ莞島ニ自生スルコトヲ記ス。但シ其物ハすずだけノ毛ノ少キ 1 變種ぢだけナリ。

1915 年拙著智異山植物調査報告書ニハ智異山稟ニやだけトすずだけトガアルコトヲ報ゼシモ其中すずだけト検定シアルハすずだけニ酷似シテ花ハ芒狀ニ尖ル顎ヲ有スル高麗すずナリ。

1917 年著者ハ咸鏡北道明川郡雲滿臺ニ自生スル箇ヲ新種ト考定シ高麗ざさト命ジテ植物學雜誌第 31 卷ニ發表セリ。

1918 年拙著金剛山植物調査書ニハやだけトすずだけトガ金剛山稟ニアルコトヲ記セリ、但シ此すずだけモぢだけノ誤ナリ。

1919 年拙著鬱陵島植物調査書ニテやだけトちしまざさトガ鬱陵島ニ自生スルコトヲ報ズ。

1922 年森爲三氏著朝鮮植物名稟ニハまだけ、はちく、ごまだけ、やだけ、ちしまざさ、ねまがりだけヲ朝鮮產竹類トシテ記セリ、然シ明川產ノちしまざさト明川產ノねまがりざさトハ共ニ高麗ざさノ誤ニシテ濟州島產ノねまがりざさトアルハたんざさノ誤ナリ。

1932 年 2 月著者ハ日本帝國產ノすずだけ屬ノ各種トミヤコざさ類ノ各種トヲ取纏メテ植物學雜誌第 46 卷ニ發表セシ中ニ朝鮮產トシテ高麗

すず、紀州すず、ぢだけノ 3 種ヲ報ゼリ。

1932年6月理科教育第15卷第6號ニ我邦ニ自生シ又ハ栽培スル竹類ノ總目錄ヲ掲グ其中朝鮮ニアルモノハくろちく、ごまだけ(變種)、まだけ、めだけ、やだけ、紫やだけ(變種)、高麗ざさ、ちしまざさ、たんなざさ、高麗すず、紀州すず、ぢだけノ 19 種 2 變種ナリ。

尙ホ近來此外ニといみんちく、なりひちだけ、孟宗竹、淡竹等ヲ移植シ又慶南東萊ノ道苗圃ニハ内地産ノ竹類多數ヲ移植シ居レドモ此等ハ他日別冊ニテ評論シ本編ニハ次ノ諸種ノミヲ記ス事トセリ。

1. *Phyllostachys pubescens* HOUZEAU DU LEHAIE 孟宗竹.
2. (a) *Phyllostachys nigra* MUNRO 黒竹.
(b) *Phyllostachys nigra* f. *punctata* BEAN 胡麻竹.
(c) *Phyllostachys nigra* var. *Henonis* STAPF 淡竹.
3. *Phyllostachys reticulata* KOCH 苦竹.
4. *Pleioblastus Simonii* NAKAI めだけ
5. (a) *Pseudosasa japonica* MAKINO やだけ.
(b) *Pseudosasa japonica* var. *purpurascens* NAKAI 紫やだけ.
6. *Sasa coreana* NAKAI 高麗笹.
7. *Sasa kurilensis* MAKINO & SHIBATA 千島笹.
8. *Sasa quelpaertensis* NAKAI 耽羅笹.
9. *Sasamorpha chiisanensis* NAKAI 高麗すず.
10. *Sasamorpha gracilis* NAKAI 紀州すず.
11. *Sasamorpha purpurascens* NAKAI var. *borealis* NAKAI 地竹.

(三) 朝鮮產竹類ノ効用

自生品中最モ廣ク用キラル、ハやだけナリ、やだけハ昔時ハ矢ノ軸ニ用キシ故武器ノ原料トシテ必要品故其栽培ヲ獎勵セシガ今ハ籬、薪、漁具、煙管等ニ用フルノミ、ぢだけト高麗すずトハ最モ多ク海苔ノ粗朶ニ用キ年々多額ヲ智異山彙ヨリ刈採ル。

栽培種中最モ有用ナルハ苦竹ニシテ全南潭陽郡ノ竹ハ古來最モ有名ニシテ谷城郡產ト共ニ内地產ノ最優良品ニ劣ラヌモノヲ產ス、鬱陵島ニモ亦良質ノモノアリ。利用ノ途廣ク諸種ノ工藝品トシ又竿、漁網ノ浮標トシ籜ハ又種々ノ編物ニ作ル之ニ次デ淡竹、胡麻竹等モ利用サレ近來ハ筍ヲ食用ニスル目的ニテ孟宗竹ヲ栽培スレドモ未ダ成功ノ域ニ達セズ、めだけハ南部ニ廣ク植エ薪、漁具、杖等ニ用フ。

(四) 朝鮮產竹科植物ノ分類

竹 科

地下莖ハ長ク地中ヲ匐ヒ又ハ短縮シテ殆ンドナキモノアリ、稈ハ頂生又ハ側生、分岐セヌモノト分岐スルモノトアリ中空或ハ充實、節ハ或ハ高ク或ハ低シ節ヨリ根ヲ出スモノ又ハ刺ヲ出スモノアリ。節間ハ短キモノ或ハ長キモノアリ無毛、有毛又ハ有刺、屢々白粉ヲ被ル、綠色、黃色、又ハ縱ノ黃線、綠線、紅線、又ハ黑色、褐色、黑紫色ノ斑點アリ、筍ハ種類ニ依リ發生ノ時期ヲ異ニスルヲ以テ竹科全體トシテ四期ヲ遁ジテ筍アリ、簾ハ有毛又ハ無毛斑點アルモノトナキモノトアリ先端ニ附屬物ヲ有スルモノ多シ、筍ノ伸長ト共ニ落ツルモノ又ハ背部ノ基ノ1ヶ所ノミニテ附着スルモノ又ハ永存性ノモノアリ、芽ハ各節ニ1-7個、枝ハ稈ノ基ヨリ出ヅルモノ或ハ央以上ヨリ出ヅルモノナドアリ、又小枝ハ枝ノ基ノ節ヨリ出ヅルモノ又ハ基ノ數個ノ節ヲ置テ其上ヨリ出ヅルモノアリ、葉序ハ1/2、葉ハ通例多少柄ヲ有シ、肩ノ毛ハ發達スルモノトナキモノトアリ其毛ハ或ハ平滑或ハ粗糙或ハ平シ、葉身ハ卵形、橢圓形、長橢圓形、披針形、狹披針形、廣針形等アリ全緣又ハ鋸齒アリ。表面ハ無毛又ハ有毛、裏面ハ無毛又ハ有毛、毛ハ或ハ臥或ハ直立シ多キモノハ天絨狀トナル、葉脈ハ縱ノ平行脈又ハ格子目脈トナル、花序ハ枝ノ先端ニ出デ花軸ハ有毛又ハ無毛、花梗ナキモノト長キモノトアリ、花序ニ葉アルモノトナキモノトアリ、花序ノ形ハ或ハ圓錐花叢、集團花序、穗狀、總狀、側扁穗狀等アリ基ニ2-6個ノ苞アリ、苞ハ或ハ小サク或ハ大キク大ナルハ花序ノ1側ヲ包ム、穎ハ2-4個、外穎ハ1-3個先端ニ芒アルモノトナキモノトアリ、縱脈又ハ格子目脈アリ、内穎ハ1-2個背面ハ扁平又ハ溝トナリ其兩側ニ2稜アリ先端ニ2齒アルヲ常トス、花穎ハ2-4個又ハナシ同形同大又ハ異形通例薄シ、雄蕊ハ3-6個花絲ハ長ク無毛又ハ有毛、葯ハ長ク2室、子房ハ無毛、花柱ハ1-3個、1個ナル時ハ先端ハ分岐セヌモノト2-3叉スルモノトアリ、柱頭ハ毛アリ、外果皮ハ薄キ時ハ内果皮ト相癒着スレドモ厚キ時ハ殼狀トナリ、内果皮ヨリ離ル、胚乳ハ多量、粉狀又ハ堅シ。

東亞、亞細亞ノ熱帶地方、馬來諸島、ポリネシア、亞米利加熱帶地方、阿弗利加熱帶地方ニ瓦リ 45 屬 560 種アリ。朝鮮ニハ 3 屬 7 種ノ自生品アリ、其他ハ栽培種ナリ、日本帝國ニ自生又ハ栽培スル竹科ノ諸屬ノ區

別ハ次ノ検索表ニ示スガ如シ。

1 地下莖ナシ故ニ稈ハ簇生ス。稈ハ頂生、葉ハ縦ノ平行脈ノミカ又ハ格子目脈ヲ有ス。 2

1 地下莖ハ横ニ匂フ、稈ハ相離レテ生ジ頂生又ハ側生、葉ハ皆格子目脈ヲ有ス。 5

2 外果皮ハ薄ク内果皮ト相癒着ス。雄蕊ハ 6 個、柱頭ハ 2-3 個、葉ハ常ニ縦ノ平行脈ヲ有ス。 3

2 外果皮ハ厚ク内果皮ヨリ離ル。雄蕊ハ 6 個。 4

3 枝ハ節ヨリ刺ヲ出スコトナシ。花柱ノ基ハ肥厚セズ。 ほうらいちく属

3 枝ハ節ヨリ刺ヲ出ス、花柱ノ基ハ殆ンド球狀ニ肥厚ス。 刺竹属

4 柱頭ハ 1-2 個、花穎ナシ、外穎ハ 1-3 個、内穎ハ 1-2 個、葉ハ格子目脈ヲ有ス。 麻竹属

4 柱頭ハ 3 個、花柱ハ長シ、花穎ハ 0-4 個、外穎ハ 1-3 個、内穎ハ 1-2 個、葉ハ縦ノ平行脈ヲ有ス。 ひいらんちく属

5 複合小花穗ヲ有ス、即チ各小花穗ハ 1 個ノ大型ノ苞ニテ包マレ此レガ相重ナリテ穗狀又ハ集團花序ヲナス。稈ハ通例側生但シ短カキ地下莖ヨリハ頂生ス、籜ハ脱落ス。雄蕊ハ 3 個、花柱ハ 1 個、柱頭ハ 3 個。 6

5 複合小花穗ヲナサズ各花ハ苞ヲ有セザレドモ小花穗ノ基ニ共通ノ苞アリ 7

6 稈ハ丈高ク通例丸シ末稍ハ長ク 2 列ニ左右ニ相並ベル葉ヲ有ス。小花穗ハ 2- 數個ノ花ヲ附ク。 苦竹属

7 稈ハ丈低ク高サ 1.5 m. ヲ出デズ、通例半圓形柱狀ナリ。小枝ハ稈ノ各節ニ 3-5 本宛出デ短ク先端ニ 1-2 枚ノ直立セル葉ヲ附ク、小花穗ハ 1-2 個ノ花ヲ附ク。 五枚笠属

7 花柱ハ 1 個 3 叉ス。雄蕊ハ 3-6 個。 8

7 花柱ハ 2 個離生又ハ基部多少相癒着ス。雄蕊ハ 3 個。 14

8 芽ハ 1 節ニ 3-7 個宛出ヅ然レドモ發達惡シキ時ハ 1-2 個ニ減數セルモノヲ混ズルコトアリ。 9

8 芽ハ 1 節ニ必ズ 1 個宛出ヅ、但シ稀ニ 2 個ノモノヲ混ズルコトアリ。 11

9	程ハ4角柱状、節間ハ若キ時ハ刺アリ、籜ハ剝脱ス、雄蕊ハ6個。 程ハ圓筒状、籜ハ少クモ背面基部ハ永存性、雄蕊ハ3個。	四方竹属 10
10	篓ハ背面基部ノ1點ニ於テ節ト相離レズ故ニ程ノ伸長ト共ニ節ヨリ垂レ下ル。花柱ハ長シ、肩ノ毛ハ剛直ニシテ粗糙ナリ。 篓ハ永存性、花柱ハ短シ、肩ノ毛ハ平滑屈曲ス。	業平竹属 川竹属(めだけ属)
11	雄蕊ハ3(4-5個ヲ混生スルコトアリ)個。	..... 12
11	雄蕊ハ6個。	..... 13
12	肩ノ毛ハ若シアレバ平滑ニシテ屈曲ス。節ハ高マラズ、花穎ハ3個通例不同型、雄蕊ハ3個、程ハ側生。	箭竹属
12	肩ノ毛ハ常ニ發達シ放射状ヲナシ央以下ハ粗糙ナリ。花穎ハ3個通例同型、雄蕊ハ3-5個、程ハ通例頂生ナレドモ側生ノモノヲ混ズルコトアリ。	あづまざさ属
13	肩ノ毛ハ決シテ出ヅルコトナシ。節ハ高マラズ、程ハ通例側生。	薦属
13	肩ノ毛ハ少クモ程鞘ニハ生ズ常ニ放射状ニシテ粗糙ナリ、節ハ高シ、程ハ常ニ頂生。	筒属
14	程鞘ハ永存性、肩ノ毛ハ剛直粗糙ナリ。芽ハ1節ニ1-3個。	新高めだけ属
14	程鞘ハ剝脱ス、肩ノ毛ハ平滑又ハ粗糙ナリ、芽ハ1節ニ3-7個。	..... 15
15	節間ハ異常ニ長シ、肩ノ毛ハ粗糙、程鞘ハ先端ニ附屬物アリ、筍ハ春夏ノ候ニ出ヅ。	たうちく属
15	節間ハ異常ニ長カラズ、肩ノ毛ハ平滑、程鞘ノ先端ニ殆ンド附屬物ナシ、筍ハ秋冷ノ候ニ出ヅ。	かんちく属

Bambusaceæ LINK, Hort. Berol. II p. 308 (1833)—TRINIUS in Acta Acad. Cæs. Petrop. ser. 6. Sci. Nat. I p. 613 (1835)—NEES in Linnaea IX p. 468 (1834)—TRINIUS in Linnaea X p. 308 (1836).—MUNRO in Trans. Linn. Soc. XXVI, p. 10 (1868).

Syn. *Gramina-Bambusacea* KUNTII in Mém. Mus. Hist. Paris II p.

75 (1815).

Gramineæ Sect. *Bracteifloræ* LINK, Handb. I p. 95 (1829).

Gramineæ *Bambuseæ* KUNTH apud LINDLEY, Introd. Bot. p. 304 (1830); Nat. Syst. Bot. p. 378 (1836)—RUPRECHT in Act. Acad. Cæs. Petrop. ser. VI, Tome V pt. 2 p. 1 (1839)—ENDLICHER, Ench. Bot. p. 59 (1841)—KOCH, Dendrol. II pt. 2, p. 353 (1873)—BENTHAM & HOOKER, Gen. Pl. III p. 1076 (1883)—HACKEL in ENGLER & PRANTL, Nat. Pflanzenfam. II Abt. 2, p. 89 (1887)—GAMBLE in Ann. Roy. Bot. Gard. Culcutta VII p. 1 (1896).

Gramineæ Trib. *Festucaceæ* Subtrib. II. *Bambuseæ* MEISSNER, Pl. Vasc. Gen. I p. 425 (1836); II p. 325 (1843).

Gramineæ Subtrib. *Bambusaceæ* ENDLICHER, Gen. Pl. p. 102 (1836)—MIQUEL, Fl. Ned. Ind. III pt. 3 p. 360 (1857).

Gramineæ Trib. *Bambusaceæ* STEUDEL, Syn. Pl. Glum. I p. 329 (1855)—DOELL in MARTIUS, Fl. Brasil. II pt. 3. p. 161 (1880).

Rhizoma fasciculatum vel longe repens. Culmi monopodiales vel sympodiales, indivisi vel ramosi, fistulosi vel solidi; nodi elevati vel haud elevati, radicantes vel non radicantes, armati vel inarmati; internodia brevia vel longissima, viridia vel farinosa, lutea vel striata, punctata vel maculata vel nigricantia, glabra—ciliata—velutina—hispida—aculeata. Folia culmorum squamoso-vaginantia, decidua vel persistentia, vel dorso punctato-persistentia ita ex nodo suspensa, glabra—villosa—hispida, apice appendiculata vel haud appendiculata, saepe setis oralibus instructa. Turiones vernales vel aestivales, rarius auctumno-hiemales. Gemmæ in quoque nodo 1–7. Ramuli e basi vel supra nonnulos nodos ramorum evoluti. Phyllotaxis 1/2. Folia petiolata cum vel sine setis oralibus; setæ orales albæ vel fuscæ vel nigræ vel purpureæ glabrae vel hispidulae, flexuoso-parallelæ vel rigido-patentes; lamina ovata, elliptica, oblonga, lanceolata, linear-lanceolata, subulata, integra vel serrulata, supra glabra vel pilosa vel erecto-hirsuta, infra glabra, ciliata, pubescentia vel velutina; nerves longitudine parallelæ vel tessellatae. Inflorescentia in apice ramuli terminalis vel lateralis terminalis, vel e basi culmorum vel ex rhizomata evoluta, paniculata vel spicata vel racemosa vel glomerata, disticha vel secunda efoliosa vel foliosa; pedunculi ex bractea spathacea exerti vel in-

serti; axis pilosa vel glabra. Spiculae basi 2-6 bracteatae. Bracteae parvae vel glumam primariam superantes. Glumae 2-4. Glumae exteriore 1-3 falcatae apice acuminatae vel aristatae 3-11 nerviae interdum tessellatae. Glumae interiores falcatae dorso planae vel sulcatae apice bidentatae. Paleae 2-4 vel 0, aequales vel inaequales tenerae. Stamina 3-6; filamenta elongata glabra vel pilosa; antherae elongatae 2-loculares. Ovarium glabrum. Styli 1 vel 2 vel 3, et si solitarii apice indivisi vel 2-3 fidi. Stigma pubescens vel plumosum. Exocarpium si tenerum endocarpio adnatum et si crustaceum ex endocarpio liberum. Albumen copiosum farinaceum vel durum.

Genera 45 et species 560 in Asia orientali et tropica, Malesia, Polynesia, America tropica, Africa tropica indigena. In Korea species 7 generum trium sponte nascent, sed nonnullae generis *Phyllostachydis* et *Pleioblasti* in parte australi cultantur.

Conspectus generum *Bambusacearum* in Imperio Japonico sponte nascentium vel cultarum.

1	Rhizoma carens. Culmi cæspitosi sympodiales. Folia plerumque cum nervis parallelis.	.....	2
	Rhizoma repens. Culmi distantes sympodiales vel monopodiales. Folia semper tessellata.	.....	5
2	Exocarpium tenerum endocarpium adnatum. Stamina 6. Stigmata 2 vel 3. Folia semper nervis longitudine parallelis.	.....	3
	Exocarpium crustaceum ex endocarpio liberum.	.....	4
3	Nodi ramorum nunquam aculeati. Styli basi non incrassati.	.....	<i>Leleba RUMPHIUS</i>
	Nodi ramorum retrorso-aculeati. Styli basi conspicue incrassati.	.....	<i>Bambusa SCHREBER</i>
4	Stigma 1 (2). Palea nulla. Glumae exteriore 2 vel 3, interiores 2. Folia nervis tessellatis.	.....	<i>Dendrocalamus</i> NEES.
	Stigmata 3. Styli elongati. Paleae 0-4. Glumae exteriore 1-3, interiores 1-2. Folia nervis parallelis.	.....	<i>Schizostachyum</i> NEES.
	Spiculae decompositæ ie quaque spicula bractea magna obtecta, ita inflorescentia cum bracteola magna imbricata. Culmi monopodi-		

ales. Vaginæ deciduæ. Stamina 3. Styli elongati. Stigmata 3.
5 { 6
Spiculae simplices ie flores distichi imbricati et quique flos cum bracteola nunquam obtectus sed spiculae pro toto basi bracteatæ. 7

Culmi vulgo elati tubulosi ventre saepe canaliculati. Ramuli elongati cum foliis distichis dependentibus. Spiculae 2-8 floræ.
6 { *Phyllostachys SIEBOLD & ZUCCARINI.*
Culmi nani vix 1,5 m. alti, semitubulosi ie ventre plani. Ramuli in quoque nodo culmi fasciculatim 3-5 apice cum foliis 1-2. Spiculae 1-2. Spiculae 1-2 floræ. *Shibatæa MAKINO.*

7 { Styli 1 trifidi. Stamina 3-6. 8
7 { Styli 2 liberi vel basi coaliti. Stamina 3. 14
(Gemmæ in quoque nodo 3-7 (rarius reductim 1-2 intermixtæ)
8 { 9
(Gemmæ in quoque nodo 1, raro 2 11
Culmi obtuso-quadrangulares ; internodia primo hispida. Vagina decidua. Stamina 6. *Tetragonocalamus NAKAI.*

9 { Culmi teretes. Vagina saltem dorso persistens. Stamina 3. 10
Vaginæ culmorum basi centro tantum persistentes, ita primo pendulæ. Styli elongati. Setæ orales rigidæ læves.
10 { *Semiarundinaria MAKINO.*
Vaginæ persistentes. Styli non elongati. Setæ orales parallelæ flexuosæ læves. *Pleioblastus NAKAI.*

11 { Stamina 3 (4-5) 12
11 { Stamina 6. 13
Setæ orales si evolutæ læves flexuosæ sed sæpe desunt. Nodi haud elevati. Paleæ 3, quarum 1 sæpe ceteris elongata. Stamina 3 (4). Culmi monopodiales. *Pseudosasa MAKINO.*

12 Setæ orales vulgo evolutæ patentes, infra medium scabré rigidæ, supra medium læves flexuosæ. Paleæ 3 omnes conformes. Stamina 3 (4-5). Culmi vulgo sympodiales sed monopodiales intermixti. *Sasaella MAKINO.*

Setae orales nunquam evolutæ. Nodi haud elevati. Culmi sœpe monopodiales. *Sasamorpha* NAKAI.

13 Setae orales saltem in vagina culmorum evolutæ, patentes rigidæ scabré. Nodi plus minus elevati. Culmi semper sympodiales. *Sasa* MAKINO & SHIBATA.

Vaginæ culmorum persistentes. Setae orales rigidæ scabré. Gemmæ in quoque nodo 1-3. *Indocalamus* NAKAI.

14 Vaginæ culmorum deciduæ. Setae orales lœves vel scabré. Gemmæ in quoque nodo 3-7. 15.

Internodia anomale elongata. Setae orales rigidæ lœves. Vaginæ culmorum apice distincte appendiculatae. Innovationes verno-aestivales. *Sinobambusa* MAKINO.

15 Internodia nunquam eximie elongata. Setae orales lœves. Vaginæ culmorum haud appendiculatae. Innovationes autumno-hiemales. *Chimonobambusa* MAKINO.

第 1 屬 箭竹 (やだけ) 屬

稈ハ地下莖ノ長枝上ニハ側生シ短枝上ニハ頂生ス。籜ハ永存性、肩ノ毛ハ或ハ生ジ或ハ生ゼズ。若シアレバ屈曲シ白色平滑ナリ、葉身ハ格子目ノ葉脈ヲ有ス。花序ハ圓錐花叢ヲナシ稈ノ上方ノ枝ノ先ニ生ズ。小花穂ハ左右ニ相並ベル 2-10 個ノ花ヲ有シ基ニ 2 個ノ小サキ苞ヲ有ス。穎ハ 5 個、外穎ハ内卷シ先ハトガリテ殆ンド茫然トナルアリ。内穎ハ背面ニ溝アリテ先端 2 叉ス。花穎ハ 3 個、通例不同型、雄蕊ハ 3 個稀ニ 4 個花柱ハ 1 個先端 3 叉ス。柱頭ハ 3 個。

本島、四國、九州、屋久島、對馬、濟州島、鬱陵島、朝鮮ノ南部、臺灣ニ亘リ 3 種アリ、其中朝鮮ニハ 1 種アルノミ。

1. や だ け (箭竹、矢竹、篠竹)

(朝 鮮 名) シンウキティ

(全 南 土 名) サンジユ

(濟州島土名) チョクティ、スリテヤ、スリデ、シヌテ

(第 I. II. 圖)

稈ハ通例 2-4 (稀ニ 5) m. ノ高サニ達シ直徑 5-15 mm. 節間ハ中空ナ

リ。外面ハ綠色無毛節ノ下ニ白粉ヲ被ル、節ハ殆ンド高マラズ、枝ハ程ノ央以上ヨリ出ヅ、籜ハ永存性、外面ニハ届リタル粗毛生ズ。芽ハ各節ニ1個宛出デ枝ハ基ノ4節ヲ除キタル上ヨリ分枝ス。葉ハ小枝ノ先ニ2列ニ相並ビテ生ズ。葉鞘ハ屢々其先端紫色ヲ帶ブ。肩ノ毛ハ生ズル時ハ白ク相平行シテ立チ多少届曲シ平滑ナリ。舌状體ハ長サ1-3 mm. 背面ニ微毛アリ。葉身ハ狹披針形長サ40-300 mm. 幅7-46 mm. 緑ニ小サキ鋸齒狀ノ刺アリ。基脚ハ急ニ尖リ先端ハ長ク尾狀ニ漸尖、表面ハ光澤アリ無毛、裏面ハ淡白ク無毛。葉脈ハ格子目ナリ、花序ハ枝ノ先端ニ圓錐花叢ヲナシ花梗ハ苞鞘ヨリ抽出ス、花軸ハ帶紫色且ツ微毛アリ、小花穗ハ綠色又ハ帶紫色5-10個ノ花ヲ附ケ基ニ長サ3-9 mm. 個ノ二個ノ苞アリ。下ノ苞ハ上ノ苞ヨリモ小サシ、外穎ハ長サ11-15 mm. 先端ハ殆ンド芒狀ニ尖リ、央以上ハ綠ニ微毛アリ、脈ハ格子目ナリ。内穎ハ格子目脈ヲ有シ長サ7-8 mm. 背面ニ溝アリ且ツ毛アリ。花穎ハ3個長サ2.5-3.5 mm. ホボ同型又ハ異型膜質透明、橢圓形ニシテ先端尖リ、先ニ毛アリ、脈ハ平行ナリ、雄蕊ハ3個ナレドモ勢ヨキ個體ニアリテハ4個トナルコトモアリ、花絲ハ無毛、薬ハ長サ5 mm. 黃色又ハ帶紫色、子房ハ無毛、花柱ハ短ク、柱頭ハ3個長ク殆ンド羽根狀ニ毛アリ。

鬱陵島、濟州島、大黒山島、青山島、亘文島、甫吉島、莞島、珍島、智島、德積島、江華島、大青島、南海島、亘濟島、慶南東萊郡機張面竹島、全南、全北、忠南ノ暖地、慶南、慶北江原ノ海岸地方ニ産ス。

(分布) 本島、四國、九州、屋久島、隱岐、對馬。

一種葉鞘、葉柄、葉身ノ紫色ナルアリ、之ヲ紫箭竹(むらさきやだけ)ト謂フ。濟州島ニ產シ稀品ナリ。

内地ニハ葉ニ白縞、黃縞アル品種アレドモ未ダ朝鮮ニハ發見セズ。

Gn. 1. **Pseudosasa** MAKINO, Journ. Jap. Bot. II no. 4, p. 15 (1920), sine diagnoses, excl. *P. spiculosa*.—NAKAI in Journ. Arnold Arboret. VI, p. 150 (1925), cum diagnoses generis, excl. *P. variegata* & *P. disticha*.—MAKINO, Journ. Jap. Bot. V no. 4 p. 15 (1928), cum diagnoses generis, excl. *P. kurilensis*, *P. spiculosa*, *P. Hisauchii*, *P. Uchidai*, *P. Togashiana*.

Syn. *Arundinaria* (non MICHAUX) STEUDEL, Syn. Pl. Glum. I p. 334 (1855), pro parte.—MUNRO in Trans. Linn. Soc. XXVI, p. 13 (1868), pro parte—Koch, Dendrol. II pt. 2, p. 375, pro parte—HACKEL in ENGLER & PRANTL, Nat. Pflanzenfam. II Abt. 2, p. 93 (1899), pro

parte-HOUZEAU DE LEHAIE in Actes III^e Congr. Int. Bot. II p. 217 (1910), pro parte-CAMUS, Bamb. p. 18 (1913), pro parte.

Yadakeya MAKINO, Journ. Jap. VI no. 7, p. 16 (1929).

Rhizoma repens ramosum. Culmi ex ramis rhizomatis elongatis monopodiales, sed abbreviatis sympodiales. Turio vernalis cum spathis elongatis extus hispidis. Spathae persistentes. Setae orales + vel —, si adsunt albæ flexuosæ parallelæ laeves. Folia cum venis tessellatis. Spiculae racemoso-paniculatae bracteis binis obtectæ, floribus distichis 2–10. Glumæ 2, exterior falcato-convoluta, interior dorso sulcata apice bidentata. Paleæ 3 subæquales vel inæquales. Stamina 3(4). Styli 1 trifidi. Stigmata 3 flexuosa.

Species 3 in Japonia, Formosa & Korea indigenæ.

1) **Pseudosasa Owatarii** MAKINO, Journ. Jap. Bot. II no. 4 p. 16 (1920)—NAKAI in Journ. Arnold Arboret. VI p. 150 (1925)—MAKINO & NEMOTO, Fl. Jap. p. 1493 (1925)—MASAMUNE, Prelim. Report Veget. Isl. Yakushima p. 45 (1929)—MAKINO & NEMOTO, Fl. Jap. ed. 2, p. 1389 (1931). Syn. *Arundinaria Owatarrii* MAKINO in Tokyo Bot. Mag. XXI, p. 16 (1907).

Sasa Owatarii MAKINO in Tokyo Bot. Mag. XXVI, p. 14 (1912).

Yadakeya Owatarii MAKINO, Journ. Jap. Bot. VI no. 7, p. 16 (1929) Nom. Jap. *Yakushima-dake*.

Hab. in insula Yakushima prov. Ōsumi, Kiusiu.

2). **Pseudosasa Usawai** NEMOTO in MAKINO & NEMOTO, Fl. Jap. ed. 2, p. 1390 (1931)—NAKAI in Rika Kyōiku XV, no. 6, p. 71 (1932).

Syn. *Arundinaria Usawai* HAYATA, Icon. Pl. Formos. VI, p. 138 (1916)—MAKINO & NEMOTO, Fl. Jap. ed. 1, p. 1424 (1925).

Nom. Jap. *Kawa-kamuri-dake*.

Hab. in Formosa.

I (3). **Pseudosasa japonica** (SIEBOLD & ZUCCARINI) MAKINO.
(Tabulæ nostræ I, II)

Pseudosasa japonica MAKINO, Journ. Jap. Bot. II no. 4, p. 15 (1920)—MORI, Enum. Corean Pl. p. 53 (1922)—NAKAI in Journ. Arnold Arboret. VI, p. 150 (1925)—MAKINO & NEMOTO, Fl. Jap. ed. 1, p. 1492 (1925)—MASA-

MUNE, Prelim. Report Veget. Isl. Yakusima p. 45 (1929)—MAKINO & NEMOTO, Fl. Jap. ed. 2, p. 1389 (1931)—NAKAI in Rika Kyōiku XV no. 6 p. 71 (1932).

Syn. *Bambos jatake* Japon ex SIEBOLD, Syn. Pl. Oecon. Jap. in Verh. Bat. Genoots. XII, p. 5 (1930), nom. nud.

Arundinaria japonica SIEBOLD & ZUCCARINI ex STEUDEL, Syn. Pl. Glum. I p. 334 no. 6 (1855)—Miquel in Ann. Mus. Bot. Lugd. Bat. II p. 284 (1866), excl. syn. *Bambusa reticulata*; Prol. Fl. Jap. p. 172 (1866), excl. syn. *Bambusa reticulata*—MUNRO in Trans. Linn. Soc. XXVI, p. 18 (1868), excl. syn. A. GRAY.⁽¹⁾—Koch, Dendrol. II pt. 2, p. 354 (1873)—FRANCHET & SAVATIER, Enum. Pl. Jap. II pt. 1, p. 182 (1876), excl. specimen ex Yokoska⁽²⁾—RIVIÈRE, Bamb. p. 297, fig. 51–59 (1878)—HACKEL in ENGLER & PRANTL, Nat. Pflanzenfam. II Abt. II p. 93 (1887)—O. KUNTZE, Rev. Gen. Pl. II p. 761 (1891)—BEAN in Gard. Chron. 3 ser. XV p. 239 fig. 26 (1894)—HACHEL in Bull. Herb. Boiss. VII p. 716 (1899)—MAKINO in Tokyo Bot. Mag. XIV p. 62 & 80 (1900)—BEADLE in BAILEY, Encyclop. Americ. Hort I p. 128 (1900)—MATSUMURA, Ind. Pl. Jap. II pt. 1, p. 88 (1905)—HOUZEAU DE LEHAIE in Mitt. Dendrol. Gesells. XVI, p. 225 (1907)—NAKAI, Fl. Kor. II p. 377 (1911)—MAKINO & SHIRASAWA, Icon. Bamb. Jap. t. 4 fig. 1–3 (1912)—BEADLE in BAILEY, Stand. Cyclop. Hort. I p. 446 fig. 458 (1914)—NOHL in Mitteil. Deutsch. Dendrol. Gesells. XXIV p. 100 (1915). *Bambusa Metake* (non SIEBOLD, Syn. Pl. Oecon. p. 4) SIEBOLD in hort. Cat. ex MIQUEL in Ann. Mus. Bot. Lugd. Bat. II p. 284 (1866), pro syn.—NICHOLSON, Illus. Diet. Gard. I p. 155 (1888).

Bambusa mitis Hort. Paris ex MUNRO, l. c. pro syn.

Phyllostachys bambusoides (non SIEBOLD & ZUCCARINI) MATSUMURA, Nippon Shokubutsu Meiji p. 139 (1884); Shokubutsu Meiji p. 213 (1895)—SATOW in Trans. Asiat. Soc. Jap. XXVII pt. 3, p. 46 (1899).

(1) GRAY's *Arundinaria japonica* is 2 flowering *Pleioblastus Simonii* and one flowering *Sasa Veitchii*,

(2) SAVATIER's no. 1492 collected at Yokoska is *Pleioblastus chino* (or *Bambusa chino*).

Susa japonica MAKINO in Tokyo Bot. Mag. XXVI, p. 13 fig. II (1912)—

CAMUS, Bamb. p. 19 Pl. V fig. A, Pl. XIII fig. A (1913)—TSUBOI, Illus. Jap. Bamb. p. 48 Pl. L (1914)—NAKAI, Veget. Diamond Mts. p. 164 no. 49 (1918); Veget. Dagelet Isl. p. 15 no. 63 (1919).

Yadakeya japonica MAKINO, Journ. Jap. Bot. VI no. 7, p. 16 (1929).

Culmus vulgo 2–4 (rarius 5) metrales altus fistulosus supra medium ramosus 5–15 mm. latus; internodia elongata glabra viridia sub nodos farinosa; nodi haud prominentes; spathae persistentes extus flexuoso-hispidae. Turiones vernalis cum spathis elongatis apice appendiculatis imbricatis obtectae. Gemma in quoque nodo solitaria. Rami basi indivisi nodis 4 proxime positis, ex quarto vel quinto nodo divisi. Folia in apice ramulorum disticha; spathae apice interdum purpurascentes margine utrinque setis oralibus flexosis albis instructae vel non fimbriatae; ligula 1–3 mm. longa dorso pilosa, lamina linearis-lanceolata 40–300 mm. longa 7–46 mm. lata margine serrulata basi acuminata apice longissime caudato-attenuata supra lucida glabra infra glaucescens vel pallida glabra; nervae tessellatae. Inflorescentia paniculata in apice ramulorum terminalis; axis exerta; rami purpurascentes pilosi; spiculae virides vel purpurascacentes 5–10 florae basi bracteis binis 3–9 mm. longis instructae. Gluma exterior 11–15 mm. longa apice subaristata-attenuata, supra medium margine pilosa, tessellata. Gluma interior 7–8 mm. longa, dorso sulcata et pilosa et secus costas binas fimbriata-pilosa, tessellata. Paleae 3 ellipticae acutae membranaceae hyalinae apice pilosae 2,5–3,5 mm. longae subaequales vel unica major, nervis parallelis. Stamina 3 vel 4; filamenta glabra; antherae 5 mm. longae flavidae vel parce purpurascientes. Ovarium glabrum. Stylus brevis glaber. Stigmata 3 elongata subplumoso-fimbriata.

Nom. Jap. *Yadake* (meaning arrow-bamboo).

Nom. Kor. *Shinwityai*, *Sandju*.

Nom. Quelpaertense: Choktei, Tjyokte, Sinute, Suritya, Suride.

Hab.

Dagelet: pede montis Rarikolbon (T. NAKAI no. 4116); Tongimi (T. NAKAI no. 4115); Moshige (T. NAKAI no. 4114); Mte Jyôhô 500 m. (T. ISHIDOYA no. 6); sine loco speciali (K. OKAMOTO).

Quelpaert: in pagos (U. FAURIE no. 1202); in sepibus (U. Faurie no.

1199); in Hongno (E. TAQUET no. 3340); pede montis Hallasan (T. ISHIDOYA no. 265); in parva insula vulcanica Hiyôtô (T. NAKAI); Saishû (T. NAKAI no. 4827).

Zennan: Insula Daikokuzantô (T. ISHIDOYA & TEI no. 3353-3354); Mo-kpo (T. UCHIYAMA); ibidem (TEI DAI GEN); Mt. Chiisan (T. NAKAI no. 129); Insula Seizantô (T. NAKAI no. 10773, 10774); Insula Kyobuntô vel Port Hamilton (T. NAKAI no. 10770); Mt. Hakuyôzan (S. TATE); Mt. Mantokusan (T. SAWADA); Chôjyô (TEI DAI GEN); Insula Hokitsutô (T. NAKAI); Insula Chitô (T. NAKAI); Mt. Sensatsuzan insulæ Chintô (T. NAKAI no. 10270); Mt. Taitonzan (TEI DAI GEN); Mt. Mutôzan (S. FUKUBARA).

Zenhoku: Sekiteiri (TEI DAI GEN); Riri (T. NAKAI).

Keinan: Ulsan (TEI DAI GEN); Chiri (S. FUKUBARA); Mt. Gyokudjohô insulæ Kyosaitô (T. NAKAI no. 10768); Ichiummen insulæ Kyosaitô (T. NAKAI no. 10769); Insula Chikutô, Kichômen (T. NAKAI no. 10772); in parva insula Botantô circa insulam Nankaito (T. NAKAI no. 10771).

Chûnan: Mt. Keiryûzan (C. KONDÔ).

Keihoku: Hokô (TEI DAI GEN).

Keiki: Mt. Sanrôsan insulæ Kôkatô (N. OKADA); Insula Tokusekitô (S. YANASE).

Kôkai: insula Taiseitô (TEI DAI GEN).

Kôgen: in monte circa Kôjyô (T. NAKAI no. 5170); Nangairi (T. ISHIDOYA no. 6219).

Distr. Hondo, Shikoku, Kiusiu, Insula Yakusima, Tsusima, Insula Oki.

Pseudosasa japonica var. *purpurascens* NAKAI in Rika Kyôiku XV no. 6. p. 71 (1932), nom. nud.

Vagina, petioli et lamina foliorum purpurea.

Nom. Jap. *Murasaki-Yadake*.

Hab.

Quelpaert: in sepibus (U. FAURIE no. 1202 bis).

I should like to make clear the limit of the genus *Pseudosasa* by this chance. When Dr. T. MAKINO wrote of *Pseudosasa* in his Journal of Japanese Botany Vol. II no 4 p. 15-16 he has not given generic diagnoses saying that 'the diagnosis will appear in the forecoming number.' How-

ever, he mentioned three species under it with full references. Those three species are *Pseudosasa japonica*, *P. spiculosa*, and *P. Owatarii*. Meantime, he meant that *Pseudosasa* is such a genus of bamboo with monopodial well-branched culms provided with non-prominent nodes, the inflorescence lateral to the branches of the upper part of the culms. Of these I heard myself from him in his house at Shibuya where he was living soon after the publication of his *Pseudosasa*. Apparently, he had mixed two kind of bamboo, one with three stamens and the other with six stamens. In his sense I have given the first generic diagnosis of *Pseudosasa* in the Journal of the Arnold Arboretum, but I excluded *Sasa purpurascens* CAMUS (*S. spiculosa* MAKINO & SHIBATA) from *Pseudosasa* as its flower has six stamens and neither the sheath nor the leaves have oral setæ. It was my error that I joined *Bambusa variegata* SIEBOLD and *Bambusa disticha* MITFORD though they have equally smooth white wavy oral setæ like *Pseudosasa japonica* and *P. Owatarii*. These two bamboos should be classed under *Pleioblastus* as Dr. MAKINO and I did later (*Pleioblastus distichus* Nakai in Rika Kyoiku XV no. 6, p. 69, 1932; *P. variegatus* MAKINO, Journal Jap. Bot. III p. 23, 1926). In 1928, Dr. MAKINO gave a new diagnosis of *Pseudosasa* in his Journal of Japanese Botany V no. 4 p. 15. This time, he mixed five different types. The first is *Arundinaria-kurilensis*-type, the second *Arundinaria-japonica*-type, the third *Sasa-spiculosa*-type, the fourth *Sasa-Hisauchii*-type, the fifth *Sasa-paniculata*-type. Among the seven species with one variety and one form enumerated by him under this new *Pseudosasa*, *Pseudosasa kurilensis* MAKINO and *P. Uchidai* MAKINO belong to the first type and which belong really to *Sasa* Sect. *Macroclamys* NAKAI; *Pseudosasa kurilensis* var. *nebulosa* MAKINO and *P. Togashiana* MAKINO belong to the fifth type and should be classed under *Sasa* Sect. *Eusasa* NAKAI; *Pseudosasa japonica* MAKINO and *P. Owatarii* MAKINO belong to the second type or the real *Pseudosasa*; *Pseudosasa spiculosa* MAKINO and its forma *angustior* belong to the third type or the genus *Sasamorpha* NAKAI; *Pseudosasa Hisauchii* MAKINO belongs to the fourth type or is *Sasaella Hisauchii* MAKINO, Journ. Jap. Bot. VI. 15 (1929). These five types are distinguished as mentioned below.

1 Culmi supra rhizoma elongatum monopodiales, ceteri sympodiales;
nodi haud elevati. Stamina 3-6. 2

Culmi omnes sympodiales; nodi incrassati. Stamina semper 6.... 4

Stamina 3 (4). Setæ orales si evolutæ albæ flexuosæ læves.

2 *Pseudosasa* MAKINO (*P. japonica*, *P. Owatarii*).
Stamina 3-6. Setæ orales destitutæ vel rigidæ patentes scabré. 3

Setæ orales semper nullæ. Stamina 6.
.... *Sasamorpha* NAKAI (*Pseudosasa spiculosa* et ejus f. *angustior*).
3 Setæ orales rigidæ patentes scabré sed supra medium sæpe læves.
Stamina 3-5. *Sasaella* MAKINO (*Pseudosasa Hisauchii*).
Paniculæ ad culmos laterales ex nodis inferioribus evolutæ. Pedunculi exerti. *Sasa* Sect. *Eusasa* NAKAI
(*Pseudosasa kurilensis* v. *nebulosa*, *P. Togashiana*).
4 Paniculæ ad ramos laterales, semper supra medium culmorum positæ.
Pedunculi maxime inserti cum vaginis amplis obtecti.
.... *Sasa* Sect. *Macrochlamys* NAKAI
(*Pseudosasa kurilensis*, *P. Uchidai*).

A genus complicated as such can not be recognised as valid and the second *Pseudosasa* of MAKINO goes partly to the synonym of the first *Pseudosasa* and the remainings are splitted as stated above. The first *Pseudosasa*, however, is still in force enrobed by the diagnosis given by me, and *Yadakeya* can have no claim as a generic name.

第 2 屬 薦 (すず) 屬

地下莖ハ地下ヲ横ニ走ル、稈ハ地下莖ヨリ側出スルヲ常トスレドモ短キ地下莖ヨリハ頂出ス。稈ノ央以上ヨリ 2 年目以後ハ分岐シ、節ハ箭竹同様低シ、箨ハ長ク筍ニテハ完全ニ節ヲ包ミ永存性、芽ハ各節ニ 1 個宛出ヅ、小枝ハ枝ノ基ヨリ 8-9 個ノ節ヲ置キ其次ヨリ出ヅ換言スレバ基ヨリ 9-10 番目ヨリ出ヅ、葉鞘ノ口ニ肩ノ毛ナシ、葉身ハ葉鞘ト關節シ格子目脈ヲ有ス有毛又ハ無毛、老成スレバ白ク隈取ルモノアリ。花序ハ枝ノ先ニ着ク、小花穗ハ複合シ花多ク基ニ 2 個ノ苞アリ。穎ハ通例紫色格子目脈ヲ有ス。外穎 1 個、内穎 1 個、花穎ハ小サク 3 個膜質 3-5 脈アリ。雄蕊ハ 6 個、花絲ハ無毛薬ハ 2 室縦裂ス。花柱ハ 3 又シ柱頭ニ毛アリ。外果皮ハ薄シ。

北海道ノ中部、南部、本島、豆南列島、四國、九州、朝鮮半島ニ亘リ
6種アリ、其中3種ハ朝鮮ニキ自生ズ。

すすハ1名すず又ハすずだけト謂フ。其語原ニ就キテハ本草學者ハ日本書記及ビ萬葉集ヲ引用ス、即チ日本書記神代卷上ノ天照大神天ノ巖戸ニ入り給ヒシ條下ニ

野槌者採五百箇野薦八十王籤（野槌をしていほつのすすのやそたまくしを探らしむ）、

トアリ素菱鳴命出雲ニテ王子清之湯山主^{ムガ}狹漏彦^{サロヒコ}八嶋篠^{シマス}ヲ設ケシ條下ニ
篠小竹也此云斯奴（篠は小竹なり此を斯奴と云ふ）

トアリ、此レガ後世ノ篠又ハ篠筐ノ語源ナルベシ、

又萬葉集久米禪師嫂石川郎女時歌五首ニ

水薦荊信濃乃真弓吾引者字真人佐備而不欲常將言可聞

(みすすかる信濃の真弓わがひかばうま人さびて否といはんかも)

三薦荊信濃乃真弓不引爲而強作留行事乎知跡言莫君ニ

(みすすかる信濃の真弓ひかずしてをはくるわざを知ると言はなくに)

トアリ。之ヲ凡テ今日ノすすだけニ合シテヨキモノナルヤ疑ヒナキ能ハザレドモ暫ク昔ノ本草學者ノ考證ニ從ヒ置ケリ。

朝鮮產す類3種ノ區別法ハ左ノ如シ。

1	高サ 60cm. ヲ出デザル小竹ニシテ稈ノ直徑ハ 3mm. ヲ出デズ、葉鞘ハ縦ノ脈ト脈トノ間ニ微小ナル逆毛ガ1列ニ相並ビテ出ヅ。	紀州すず
	高サ 1-2 m. ニ達シ稈ノ直徑ハ 3-6 mm. トナル。葉裏ハ無毛又ハ基部ニ少シク毛アリ。節間ハ1年生ノモノハ粗キ逆毛アリ、葉鞘ニハ粗キ前方ニ向フ届レル毛アリ。..... 2	
2	外穎ノ先端ニ芒アリ。.....	高麗すず
	外穎ノ先端ハ尖レドモ芒ナシ。.....	地竹

2 (1) 紀州すず

(第 III 圖)

地下莖ハ地中ニテ複雜ニ分岐ス。稈ハ直立シ高サ 20-60 cm. 細ク直徑 1-3 mm. 1-2 回分岐ス帶紫色始メ白粉ヲ被レドモ後之ヲ失ヒ節ハ高マラズ。籜及ビ葉鞘ハ始メ縦脈ト縦脈トノ間ニ逆毛アレドモ後ニハ大部分無毛トナル、肩ノ毛ナシ、葉身ハ狭披針形ニシテ長サ 38-246 mm. 幅 8-26 mm. 基脚ハ幅 1-2 mm 葉柄ニ向ヒテ急ニ尖リ先端ハ長ク細ク尖ル緣ハ屢

屢白ク隈取ル始メ縁ニ細カキ刺狀ノ小鋸齒アレドモ後之ヲ失フ。表面ハ綠色無毛光澤アリ。裏面ハ淡白ク脈ト脈トノ間ニ小サキ逆毛アリ。花莖ハ程ノ下方ノ節ヨリ側出シ細ク花序ト合セテ長サ 200-377 mm. 最下部ノ3-4個ノ節ハ相接近シ上方ノ2個ハ相離ル、苞状ノ鞘ハ下方ノモノハ逆毛アレドモ上方ノモノハ無毛ニシテ各先ニ狭披針形ノ小サキ附屬物アリ、花梗ハ細ク上部程密ニ毛アリ、小花穗ハ總状ニ出デ花枝ハ白キ密毛アリ。小花穗ハ紫色長サ 10-23 mm. 3-6個ノ花ト基ニ2個ノ小サキ苞トアリ。下方ノ苞ハ卵形紫色白毛出デ長サ 2-3 mm. 上方ノ苞ハ長橢圓卵形紫色縁ニ絨毛背ニ微毛アリ長サ 4-5,5 mm. 外穎ハ長橢圓卵形内ニ卷キ紫色縁ニ絨毛背ニ微毛アリ長サ 6-8 mm. 内穎ハ紫色先端2叉シ背ハ淺キ溝トナル長サ 6-7 mm. 花穎ハ3個同形長サ 1 mm. 透明ニシテ先端帶紫色長橢圓形ニシテ先端ハ尖リ又ハ丸シ、雄蕊ハ6個花絲ニ毛ナク薬ハ黃色長サ 3,5-4 mm. 花柱ハ殆ンド基部迄3裂シ柱頭ハ羽状。

全羅南道莞島郡苗圃附近ノ山及ビ長城郡白羊山ノ中腹ニ自生ス。

(分布) 紀州高野山、伊豆天城山。

3 (2) 高麗すず

(朝鮮名) カツテ

(第 IV 圖)

通例群生シ程ハ高サ 1-2 m. 始メ粗毛アレドモ間モナク無毛トナリ丸ク光澤アリ央以上ヨリ 2-3 回分岐ス。節ハ高マラズ節間ハ先端ニ粗毛ト白粉トヲ被ル葉鞘ハ長サ 4-7 cm. 基ノミ粗毛アリ縦ニ不顯著ナル筋アリ口ハ截形無毛、舌狀體ハ長サ 1 mm. ヲ出デズ、葉身ハ披針形基ハ急ニトガリ先ハ長ク尖ル長サ 53-232 mm. 幅 11-38 mm. 表面ハ綠色無毛光澤アリ裏面ハ白ク中肋ノミ高マリ顯微鏡ニテハ嘴狀ノ透明ナル小突起ニテ點點ヲナス、緣ハ全緣厚ク先ニ向キ小サキ刺狀毛アリ。花序ハ枝ノ先ニ出デ花梗ハ長サ 15-20 cm. 直徑僅カニ 1-1,5 mm. 小花穗ハ圓錐花叢ヲナシ 3-6個ノ花ヲ有ス、花序ノ枝ニハ白キ密毛アリ。小花穗ノ基ニハ 2個ノ苞アリ、下ノ苞ハ舟形披針形紫色長サ 4 mm. 微毛アリ、上ノ苞ハ長サ 7-8 mm. 先ハ芒狀ニ尖リ先ノ方ト基ノ方トニ微毛アリ。外穎ハ紫色長サ 9-10 mm. 先ハ芒狀ニ尖リ緣ト先トニ微毛アリ背面ニハ基ニノミ毛アリ 7-9本ノ縦脈アリ、内穎ハ背面ニ溝アリ 3 脈短カキ毛アリ長サ 7-8 mm. 花穎ハ3個膜質倒卵長橢圓形長サ 1-1,3 mm. 緣ニ微毛アリ。雄蕊ハ6個

花絲ニ毛ナク薺ハ長サ 5 mm. 柱頭ハ 3 個先ニ毛アリ。

全南、慶南殊ニ智異山稟ニ多シ、外觀ぢだけニ似テ穎ニ芒アルヲ異ニス朝鮮ノ特產ナリ。

4 (3) 地竹 (ぢだけ)、一名 えぞすずだけ

(朝鮮名) カツテ

(全南土名) マクトエギ

(第 V 図)

地下莖ハ地中ヲ横ニ走リ分岐多ク節ヨリ根ヲ出ス、稈ハ地下莖ノ長枝ヨリハ側出シ短枝ヨリハ頂出ス、直立シ高サ 1-2 m. 直徑 3-6 mm. 節ニテハ長キ籜ニテ包マル籜ニハ粗毛アリ。先ニ披針形ノ附屬物ヲ有ス。稈ハ通例 5 年目ニ枯死ス。節ハ高マラズ 1-3 年生ノ稈ニテハ籜ガ残レドモ 4 年生ノモノハ之ヲ失ヒ光澤ニ富ム。節間ハ 1-3 年生迄ハ粗キ逆毛アリ又 1 年生ノモノハ毛ト共ニ白キ粉ヲ被ル、4 年生ノモノハ全ク無毛トナル、葉鞘ハ口ニ肩ノ毛ナク唯粗毛アリ、葉身ハ長橢圓披針形長サ 51-254 mm. 幅 10-41 mm. 基ハ急ニ尖リ先ハ漸次尖リ往々尾状ニ長ク尖ル縁ニハ無色ノ刺毛狀ノ鋸齒アリ表面ハ綠色無毛光澤アリ裏面ハ無毛又ハ基ニ逆毛ト長キ毛トアルコトアリ、老成葉ハ屢々縁ニ不規則ノ燒葉ヲ作レドモ自ク隈取ルコト殆ンドナシ。花序ハ 3-4 年生ノ稈ノ枝ノ先ニ出デ花軸ハ殆ンド無毛帶紫色基ハ紫色ノ葉鞘ニテ包マル。花枝ニハ毛ト白粉トアリ、小花穗ハ複總狀花序ヲナシ紫色各 2-5 花ヲ附ケ基ニ 2 個ノ不等形ノ苞ヲ有ス。外穎ハ長ク 7-10 mm. 光澤アリ縁ニノミ微毛アリ先ハ尖ルモ芒狀ヲナサズ内面ニ毛アリ。内穎ハ長サ 8-9 mm. 背ニ溝アリ。花穎ハ 3 個同形透明、雄蕊ハ 6 個花絲ハ無毛又ハ極メテ短カキ毛アルコトアリ、薺ハ黃色長サ 4 mm. 花柱ハ 1 個短ク柱頭ハ 3 個長ク毛アリ。

平南(徳川郡大極面社洞)、咸南(楸愛山、三防ノ瀧附近)、江原(金剛山、大白山、泰岐山、五台山、屹靈山)、黃海(長壽山)、京畿(龍門山)、忠北(俗離山)、忠南(雞龍山)慶北(日月山)、慶南(棲鶯山、伽耶山、智異山)、全北(德裕山)全南(白羊山、無等山、大菴山、莞島)ニ產ス。

(分布) 北海道(釧路、根室、日高、膽振、渡島)。

Gn. 2. **Sasamorpha** NAKAI in MIYABE & KUDO, Fl. Hokkaido & Sahalien II in Journ. Facult. Agr. Hokkaido Imp. Univ. XXVI pt. 2, p. 180 (1930).

Syn. *Arundinaria* (non MICHAUX) HACKEL in Bull. Herb. Boiss. VII p. 716 (1899), cfr. *Arundinaria purpurascens*.

Bambusa (non SCHREBER) HACKEL, l. c. p. 720, cfr. *Bambusa borealis*.

Arundinaria Sect. *Bambusoides* SHIBATA & MAKINO in Tokyo Bot. Mag. XIV p. 20 in nota sub *Arundinaria borealis* (1900), pro parte.

Sasa MAKINO & SHIBATA in Tokyo Bot. Mag. XV p. 18 (1901), pro parte.

Pseudosasa MAKINO in Journ. Jap. Bot. II p. 15 (1920), nom. nud., pro minoribus partibus.

Rhizoma repens. Culmi ex ramis elongatis rhizomatis monopodiales, ex abbreviatis sympodiales; nodi haud elevati; vaginæ persistentes. Gemma in quoque nodo unica. Rami ex basi 8-9 nodo ramulosi. Folia basi vaginantia; vagina persistens ore truncata sine setis oralibus; lamina cum vagina articulata lanceolata vel lineari-lanceolata vel oblonga, nervis tessellatis, utrinque glabra vel subitus pilosa vel velutina, adulta sæpe albo-marginata, margine setis deciduis spinuloso-serrulata. Inflorescentia in apice ramuli terminalis. Spiculæ decompositæ pleuranthæ bracteis 2 suffultæ. Glumæ plerumque purpureæ, primaria margine pilosa tessellata, secundaria dorso late sulcata. Paleæ parvæ 3 homomorphæ membranaceæ. Stamina 6, filamenta glabra vel minutissime pilosella, antheræ bilobulares longitudine fissæ. Styli trifidi, ramis pilosis. Exocarpium membranaceum.

Species 6 in Korea, Kiusiu, Shikoku, Hondo & Yeso endemicæ. In Korea species 3 indigenæ.

1. { Vaginæ culmorum inferiores inter venas retrorso-ciliolatæ. Folia infra saltem basi inter venas sub lente minute retrorso-ciliolata, anguste lanceolata sæpe albo-marginata. Culmi graciles 20-60 cm. alti. *Sasamorpha gracilis*.
Vaginæ culmorum antrorum curvato-hispidae vel glabrae. 2
2. { Glumæ aristatae. Vaginæ culmorum et ramorum primo adpressissime ciliolatae demum glabrescentes. Folia oblongo-lanceolata vel lanceolato-oblonga 5,3-23,2 cm. longa 1,1-3,8 cm. lata subitus glaberrima. *Sasamorpha chiisanensis*.

Glumæ non aristatae. Vaginæ culmorum antrorum curvato-hispidae.
Folia late lanceolata vel lanceolato-oblonga 6,2-26,3 cm. longa 1,4-
4,3 cm. lata subtus basi tantum pilosella.
..... *Sasamorpha purpurascens* var. *borealis*.

2 (1) ***Sasamorpha gracilis* NAKAI**
(Tabula nostra III)

***Sasamorpha gracilis* NAKAI** in Tokyo Bot. Mag. XLVI, p. 38 (1932).

Rhizoma repens complicatim ramosum. Culmi ex ramis rhizomatis elongatis monopodiales, ex abbreviatis sympodiales 20-60 cm. alti erecti sed graciles 1-bis ramosi 1-3 mm. lati purpurascentes primo pruinosi demum denudati; nodi haud incrassati. Vaginæ primo inter venas longitudinales minute retrorso-ciliatae demum maxime glabrescentes. Setæ orales destitutæ. Lamina foliorum linear-lanceolata 38-246 mm. longa 8-26 mm. Iata, basi in petiolem 1-2 mm. latum mucronata, apice longe anguste attenuata, margine primo spinulosa demum subglabra, supra viridia glabra lucida saepe albo-marginata, subtus glaucina et asperula. Scapus lateralis et subbasilaris ex omnibus nodis evolutis gracilis cum inflorescentia 200-377 mm. longus, nodis 3-4 basilaribus proximis 2 superioribus remotis, vaginis inferioribus retrorso-ciliolatis superioribus glabris appendicibus linear-lanceolatis coronatis. Pedunculus gracilis superiore densius pubescens. Inflorescentia racemosa, axi albo-barbata. Spiculæ purpureæ 10-23 mm. longæ 3-6 floræ basi bracteatae. Bractea prima ovata purpurascens albo-pubescentia 2-3 mm. longa, secunda oblongo-ovata purpurea margine villosula dorso adpresso ciliolata 4,0-5,5 mm. longa. Gluma primaria oblongo-ovata convoluta purpurea dorso minute ciliolata margine villosula 6-8 mm. longa, secunda purpurea 6-7 mm. longa bicuspidata. Paleæ 3 omnes conformes 1 mm. longæ hyalinæ apice purpurascentes oblongæ acutæ vel obtusiusculæ. Stamina 6; filamenta glabra; antheræ flavæ 3,5-4 mm. longæ. Styli alte 3-fidi. Stigmata 3 plumosa.

Nom. Jap. *Kishu-sudzu*.

Hab.

Prov. Zennan: in silvis montis Hakuyôzan (T. NAKAI no. 10778, 10779); in silvis insulæ Wangtô (T. NAKAI no. 10776); in declivitate montium

Wangtô (T. NAKAI no. 10777).

Distr. Hondo.

3 (2) **Sasamorpha chiisanensis** NAKAI
(*Tabula nostra IV*)

Sasamorpha chiisanensis NAKAI in Tokyo Bot. Mag. XLVI, p. 37
(1932).

Syn. *Sasa spiculosa* (non MAKINO) NAKAI, Veget. Mt. Chirisan p. 22 no.
261 (1915).—MORI, Enum. Corean Pl. p. 54 (1922), pro parte.

Rhizoma repens ramosissimum. Culmi 1–2 m. alti primo hispiduli
mox glabrescentes lucidi teretes, ex medio bis vel ter ramulosi ; nodi haud
incrassati ; internodia apice hispidula glauco-cerifera. Vagina foliorum
4–7 cm. longa præter basin hispidulam glaberrima longitudine obscure striata,
ore truncata glabra. Ligula brevis vix 1 mm. longa. Lamina foliorum lanceolata
basi subito contracto-mucronata et cum vagina articulata
53–232 mm. longa 11–38 mm. lata, supra viridis glabra lucida, infra glauca
costis tantum elevatis sub lente processis rostratis punctulata, margine integerrima
incrassata antrorsum setulosa. Inflorescentia in apice ramulorum terminalis ;
pedunculus 15–20 cm. longus 1–1,5 mm. latus ; spiculæ
subpaniculatae 3–6 floræ basi bibracteatae ; ramuli dense albo-ciliati. Bractea
inferior naviculari-lanceolata purpurea 4 mm. longa pilosa, superior
7–8 mm. longa aristato-acuminata apice et basi ciliolata. Gluma exterior
purpurea 9–10 mm. longa apice aristato-attenuata margine et apice ciliolata
dorso basi tantum ciliolata utrinque laterali 3–4 nervata. Gluma interior
dorso sulcata adpresso ciliolata bicarinata ubi longe ciliata ventre convoluta
7–8 mm. longa. Paleæ 3 membranaceæ obovato-oblongæ margine ciliatae
1–1,3 mm. longæ. Stamina 6 ; filamenta glabra ; antheræ flavæ 5 mm.
longæ. Styli trifidi. Stigmata pilosa.

Nom. Jap. *Korai-Sudzu*.

Nom. Kor. *Kattei*.

Hab.

Prov. Zennan : in monte Chiisan (T. NAKAI no. 719, typus in Herb. Imp.
Univ. Tokyo).

Prov. Keinan : in silvis Pomasa (U. FAURIE no. 1200).

4 (3) **Sasamorpha purpurascens** NAKAI

var. **borealis** NAKAI.

(*Tabula nostra V*)

Sasamorpha purpurascens NAKAI in MIYABE & KUDO, Fl. Hokkaido & Saghalien II p. 181 in nota sub *Sasamorpha borealis* (1930); in Tokyo Bot. Mag. XLVI, p. 40 (1932).

Syn. *Arundinaria* sp. K. Ito, Nihon Sanbutsushi, Prov. Shinano, I fol. 34 cum figuris (1856).

Bambusa senanensis (non FRANCHET & SAVATIER) MAXIMOWICZ in litt. 1880.—MATSUMURA, Nippon Shokubutsu Meii p. 27 (1884); Shokubutsu Meii p. 44 (1895).

Arundinaria tessellata (non MUNRO) MATSUMURA, Cat. Pl. Herb. Coll. Sci. Imp. Univ. p. 237 (1886), pro parte.

Arundinaria purpurascens HACKEL in Bull. Herb. Boiss. VII p. 716 (1899).

Arundinaria borealis MAKINO in Tokyo Bot. Mag. XIV p. 20 (1900).

Bambusa purpurascens MAKINO in Tokyo Bot. Mag. XV p. [62] (1901).

Sasa borealis MAKINO & SHIBATA in Tokyo Bot. Mag. XV p. 24 (1901), excl. Pl. Yesoenses.—MATSUMURA, Ind. Pl. Jap. II pt. 1, p. 96 (1905), excl. Pl. Yesoenses.—MAKINO & SHIRASAWA, Icon. Bamb. Jap. Pl. XI, fig. 16–20 (1912)—HAYATA, Botany Mt. Fuji p. p. 27 & 38 (1926).

Sasa spiculosa MAKINO in Tokyo Bot. Mag. XXVI, p. 12 (1912), excl. syn.—MAKINO & NEMOTO, Catalog. Jap. Pl. Herb. Nat. Hist. Departm. Tokyo Imp. Mus. p. 392 (1914).

Sasa purpurascens CAMUS, Bamb. p. 19 Pl. I fig. B. (1913).

Pseudosasa spiculosa MAKINO in Journ. Jap. Bot. II no. 4. p. 16 (1920), excl. syn. *Arundinaria kurilensis* var. *spiculosa* & *Bambusa borealis*—MAKINO & NEMOTO, Fl. Jap. p. 1492 (1925); ed. 2 p. 1390 (1931).

Sasamorpha purpurascens var. **typica** NAKAI.

Vaginæ culmorum dense crebrius hispidulæ.

Habitat in Hondo et Shikoku, sed in Korea nondum detecta.

Sasamorpha purpurascens var. **borealis** NAKAI in Tokyo Bot. Mag. XLVI p. 41 (1932).

Syn. *Bambusa borealis* HACKEL in Bull. Herb. Boiss. VII p. 720 (1899).

Sasa borealis MAKINO & SHIBATA in Tokyo Bot. Mag. XV p. 24 (1901), quoad pl. ex Yeso.—MATSUMURA, Ind. Pl. Jap. II pt. 1 p. 96 (1905), quoad pl. ex Yeso.

Sasa spiculosa (non MAKINO) CAMUS, Monogr. Bamb. p. 18 Pl. I, fig. A. (1913), excl. syn.—NAKAI, Veget. Diamond Mts. p. 164 no. 50 (1918).—MORI, Enum. Corean Pl. 54 (1922), pro parte.

Sasamorpha borealis NAKAI in MIYABE & KUDO, Fl. Hokkaido & Saghalien II p. 181 (1930).

Rhizoma repens ramosissimum squamis albis vel purpurascensibus lucidis longitudine multistriatis obtectum. Culmi ex ramis rhizomatis elongatis monopodiales, ex brevibus sympodiales, ex basi arcuato-ascendentes erecti fistulosi supra medium ramosi 4–6 ennes 1–2 m. alti 2,5–5 mm. lati; nodi haud elevati; internodia primo farinosa et supra medium pilosa demum glabrescentia et lucida. Spathæ turionum purpurascentes elongatae imbricatae internodia perfecte obtectæ hirtellæ apice subulato-appendiculatae sine setis oralibus. Spathæ ramorum parcius hirtellæ vel glabrae ramos toto obtectæ sine setis oralibus. Folia late lanceolata vel lanceolato-oblonga 62–263 mm. longa 14–43 mm. lata in viva deflexa et ad apicem parce arcuato-ascendentia supra viridia glaberrima lucida infra glaucina glabra vel basi tantum pilosella, margine setulosa vel denticulata vel integra, basi rotundato-mucronata apice attenuata. Inflorescentia in ramis 2–5 ennibus lateralis ramos foliosos terminales superans paniculata, axis exerta glabra; rami farinosi et albo-pilosi flexuosi. Spiculæ purpureæ vel olivaceo-purpureæ vel intense purpureæ 2–6 floræ sed flos supremus vacuus, basi bracteis inæqualibus oblongis vel ellipticis obtectæ. Quique flos cum rachi unica superiore ex inferiore articulatim sejunctus. Glumæ exteriores 8–11 mm. longæ subaristato-acuminatae vel muticæ præter apicem et marginem glaberrimæ nervis anastomosis non elevatis. Glumæ interiores dorso bicarinato-sulcatæ ciliatæ apice bidentatae 7–9,5 mm.

longæ. Paleæ membranaceæ inæquales 1-2 mm. longæ oblongæ vel obovatae vel lancolatae margine ciliolatae. Stamina 6 (vel reductim 5 vel 4); filamenta glabra; antheræ lineares 6-7 mm. longæ apice acuminatæ sed connectivum haud exertum. Ovarium sessile glabrum. Stylus 1 brevis glaber. Stigmata 3 subplumosa.

Nom. Jap. *Djidake Yezo-sudzudake*.

Hab.

Prov. Kannan: circa cataractum Sanbô (T. NAKAI no. 13956); in monte Shûaizan (S. FUKUBARA).

Prov. Heinan: Shadô oppidi Taikyokumen (C. KONDO).

Prov. Kôkai: in monte Chôdjusan (TEI DAI GEN).

Prov. Kôgen: Mte Kongôsan (T. NAKAI no. 5168, 5169); Mte Taihakusan (T. ISHIDOYA no. 5800-5802); Mte Kitsureizan tractu Heikô (AN KI SHU); Mte Taikisan (S. FUKUBARA); Mte Godaizan (T. ISHIDOYA no. 6531, 6532).

Prov. Keiki: Mte Ryumonzan (T. SAWADA).

Prov. Chûhoku: Mte Zokurisan (S. FUKUBARA).

Prov. Chûnan: Mte Keiryusan (C. KONDO); ibidem (T. NAKAI no. 7773).

Prov. Keihoku: Mte Zitsugetsusan (T. SAWADA).

Prov. Zenhoku: Mte Tokuyûzan (S. FUKUBARA).

Prov. Keinan: Mte Seishûzan (T. SAWADA); Mte Tennôhô (T. ISHIDOYA no. 5019); Mte Kayasan (TEI DAI GEN); ibidem (S. KOIDE).

Prov. Zennan: Mte Hakuyôzan (T. NAKAI no. 1177, 10775); ibidem (T. ISHIDOYA); Insula Wangtô (T. NAKAI no. 528); Mte Mutôsan (S. FUKUBARA); Mte Taitonzan (T. NAKAI no. 10291); ibidem (TEI DAI GEN).

Distr. Yeso australi-orientalis.

第3屬 川竹(めだけ) 屬

地下莖ハ地中ヲ横ニ走リ分岐ス、稈ハ直立シ長キ地下莖ノ枝ヨリハ側出シ短カキ枝ヨリハ頂生ス。節ハ高マリ各節ニ3-7個ノ相並ビタル芽ヲ出ス、籜ハ永存性、肩ノ毛ハ平滑白色屈曲シ通例永存性、葉脈ハ格子目ナリ、花序ハ稈又ハ枝ヨリ側出ス即チ最頂ノ枝ハ葉ヲ有シ其側下方ノ芽ガ花序トナル、小花穗ハ總状又ハ葉腋ニ密集シ各3-10個ノ花ヲ附ケ基ニ2個ノ格子目脈ヲ有スル苞アリ、外穎ハ1個先ハ尖リ格子目脈ヲ有

ス、内穎ハ先端2叉ス、花穎ハ3個膜質ニシテ内穎ニ相對スル1個ハ他ノ2個ヨリモ小サシ、雄蕊ハ3個、花絲ハ無毛、薬ハ狹ク2室、薬間ハ抽出セズ、花柱ハ1個羽狀ノ3個ノ柱頭ヲ頂ク、果實ハ長橢圓形、外果皮ハ薄シ。

本島、四國、九州、琉球、支那ニ亘リ30種以上アリ未ダ完全ナル研究ヲ見ズ、朝鮮ニハ古クヨリ川竹ヲ内地ヨリ移植シ南部各所ニ植ユ。

5. **カハタケ** **メタケ**
川竹、女竹

(第 VI 圖)

地下莖ハ長ク地中ヲ走ル、程ハ長キ地下莖ヨリハ側生シ高サ6m. 直徑2-2.5 cm. ニ達シ中空綠色無毛節ハヤ、高ク其下ニ始メ白粉アレドモ後之ヲ失フ、籜ハ始メ綠色ナレドモ後褪色シ永存性先ニ披針形ノ附屬物アリ、芽ハ各節ニ3-7個宛出ヅ從ツテ枝モ3-7本(稀ニ減數シテ1-2本)宛出テ開出ス、葉ハ狹披針形長サ10-31 cm. 幅7-30 mm. 基脚ハ短カキ葉柄ニ向ヒ尖リ先端ハ長ク次第ニ細マル緣ニハ細カキ刺状ノ鋸齒アリ、表面ハ綠色無毛裏面ハ淡綠色又ハ淡白シ、葉脈ハ格子目ヲナス肩ノ毛ハ平行屈曲シ白色平滑殆ンド永存性、花序ハ程又ハ枝ノ側方ヨリ出ヅ。小花穗ハ花疎ニ出デ長サ2-7 cm. 基ニ2個ノ苞アリ花軸ニハ絨毛アリ、苞ハ長サ8-10 mm. ヨク尖リ格子目脈アリ、外穎ハ1個長サ11-16 mm. 緑色又ハ帶紫色格子目脈アリ緣ニ微毛アリ、内穎ハ長サ10-14 mm. 先端2叉シ背面ニ微毛アリ又背側ニ長キ毛ヲ有スル2稜アリ、花穎ハ3個無色透明ニシテ微毛アリ、橢圓形長サ3 mm. 許、雄蕊ハ3個、薬ハ帶綠黃色長サ7 mm. 薬間ハ抽出セズ、花柱ハ1個短ク柱頭ハ3個毛アリ。

慶北、慶南、忠南、全北、全南ノ暖地、南部ノ島及ビ濟州島ニ栽培ス、内地ヨリ移入ノ歴史ハ不明ナリ。

Gn. 3. **Pleioblastus** NAKAI in Journ. Arnold Arboretum VI p. 145 (1925).

Syn. *Arundinaria* (MICHAUX) MUNRO in Trans. Linn. Soc. XXVI, p. 13 (1868), pro parte -Koch, Dendrol. II p. 375 (1873), pro parte -RIVIÈRE, Bamb. p. 16 (1878), pro parte -BENTHAM & HOOKER, Gen. Pl. III p. 1207 (1883), pro parte -HACKEL in ENGLER & PRANTL, Nat. Pflanzenfam. II Abt. 2 p. 93 (1899), pro parte -CAMUS, Bamb. p. 26 (1913), pro parte.

Arundinaria Sect. *Euarundinaria* HOUZEAU DE LEHAIE in Actes
III^e Congrès Int. Bot. Bruxells II p. 217 (1910), pro parte.

Rhizoma repens, ramis elongatis cum culmis monopodialibus, ramis brevibus cum culmis sympodialibus. Culmi erecti ramosi. Nodi cum gemmis 3-7, ie internodia in fina ramorum 2-6 subnulla sed omnes geminae in ramulis evolutae. Vaginæ culmorum persistentes, ita nodi culmorum vetustorum saepe ab vaginis emortuis fibrosis obtecti. Setæ orales laevissimæ flexuosaæ albæ subpersistentes. Folia venis tessellatis. Inflorescentia ad ramos vel culmos laterales. Spiculae racemosæ vel axillari-congestæ, 3-10 floræ basi bracteis tessellatis binis obtectæ. Gemmæ 2, exterior major tessellata acuminata, interior apice bidentata. Paleæ 3 membranaceæ, una glumam interiorem opposita ceteris minor. Stamina 3; filamenta glabra; antheræ lineares biloculares; connectivum haud productum. Stylus 1 cum stigmatibus 3 subplumosis. Caryopsis oblonga exocarpio membranaceo cum testa seminum adhærente.

Species circ. 30 in Hondo, Shikoku, Kiusiu, Liukiu, & China indigenæ. In Korea *P. Simonii* usu ejus culmi in australi parte late cultur.

5. **Pleioblastus Simonii** (CARRIÈRE) NAKAI
(Tabula nostra VI)

Pleioblastus Simonii NAKAI in Journ. Arnold Arboret. VI p. 145 (1925)
-MAKINO & NEMOTO, Fl. Jap. ed. 2, p. 1379 (1931).

Syn. *Bambusa metake* SIEBOLD, Syn. Pl. Oecon. Jap. p. 4 (1830)-ZOLLINGER, Syst. Verzeich. in Ind. Arch. Jap. Pfl. I p. 57 (1854).
(non SIEBOLD in hort. ex MIQUEL).

Arundinaria japonica (non SIEBOLD & ZUCCARINI) A. GRAY in
Mem. Americ. Acad. Arts & Sci. new ser. VI p. 328 (1859), pro
parte, vidi specimina in 1923.-MATSUMURA, Shokubutsu Meii p.
32 (1895)-SATOW in Trans. Asiat. Soc. Jap. XXVII pt. 3, p. 43
(1899).

Bambusa Simoni CARRIÈRE in Rev. Hort. XXXVII p. 380 (1866);
XLVIII p. 359 (1896).

Arundinaria Fortunei (non RIVIÈRE) FENZI in Gard. Chron. (1876)
p. 773.

Arundinaria Simonii A. & C. RIVIÈRE in Bull. Soc. Accl. 3 sér. (1878), p. 774—BEAN in Gard. Chron. 3 sér. XV p. 301 fig. 35. (1894)—MITFORD, Bamb. Gard. p. 59 (1896)—HACKEL in Bull. Herb. Boiss. VII p. 716 (1898)—MAKINO in Tokyo Bot. Mag. XIV p. 62 & 95 (1900)—MATSUMURA, Ind. Pl. Jap. II pt. 1, p. 89 (1905)—J. HOUZEAU, Bamb. no. 1, p. 30 (1906); in Mitt. Deutsch. Dendrol. Gesells. XVI, p. 226 (1907)—MAKINO & SHIRASAWA, Icon. Bamb. Jap. VII fig. 1—5 (1912)—CAMUS, Bamb. p. 33 Pl. 17 fig. B. (1913)—NOHL in Mitt. Deutsch. Dendrol. Gesells. XXIV, p. 100 (1915)—MAKINO & NEMOTO, Fl. Jap. ed. 1, p. 1424 (1925).

Arundinaria brachyclada HACKEL in litt. ex MATSUMURA, Ind. Pl. Jap. II pt. 1, p. 89 (1905).

Rhizoma longe repens. Culmi vulgo monopodiales, 2—6 m. alti 2—25 mm. lati fistulosi virides glabri sub nodos primo farinosi demum glabrescentes. Vaginae culmorum virides glabrae longitudine striatae lanceolato-appendiculatae demum cinerascentes persistentes. Gemmae in quoque nodo 3—7. Ramæ 1—7 divaricato-patentes. Folia linearis-lanceolata 10—31 cm. longa 7—30 mm. lata basi in petiolem brevem attenuata apice longe sensim attenuata margine minute serrulata supra viridia glabra infra glaucina vel viridula, nervis tessellatis. Setæ orales parallelæ flexuosaæ albæ leves subpersistentes. Inflorescentia ad culmos vel ad ramos lateralis. Spiculae 2—7 cm. longæ sublaxifloræ basi bibracteatae; axis velutina. Bracteæ 8—10 mm. longæ acuminatae tessellatae. Gluma exterior 11—16 mm. longa viridis vel purpurascens tessellata margine pilosella. Gluma interior 10—14 mm. longa apice bidentata dorso pilosa et pubescente bicarinata. Paleæ 3 hyalinæ pilosæ oblongæ 3 mm. longæ. Stamina 3; antheræ viridi-flavæ 7 mm. longæ; connectivum haud productum. Stylosus brevis. Stigmata 3 pilosa.

Nom. Jap. Kawatake, Medake.

In Korea australi et Quelpaert culta, olim ex Japonia transplantata.

第4屬 ささ屬

地下莖ハ地下ヲ横ニ走リ分岐多シ、稈ハ常ニ頂生シ無毛又ハ有毛、節

ハ多少ニ關ラズ肥厚シ無毛又ハ有毛、簾ハ有毛又ハ無毛永存性先端ニ附屬物アリ、肩ノ毛ハ剛直ニシテ多クハ厚キ突出物ノ周圍ヨリ放射状ニ出デ粗糙ナリ、葉ハ狹披針狀ヨリ卵橢圓形迄ノ間ノ形ヲナシ無毛又ハ有毛、花序ハ程ノ基部ヨリ特別ノ枝トシテ出デ又ハ央以上ノ枝ノ先ニ出デ總状又ハ複總状ナリ、小花穗ハ 2-9 個ノ花ヲ附ケ最基部ニ 2 個ノ苞アリ、外穎ハ 1 個、格子目脈ヲ有シ先端或ハ尖リ或ハ芒狀ヲナス、内穎ハ 1 個先端 2 又シ背面ハ溝トナル、花穎ハ 3 個小サク膜狀、雄蕊ハ通常 6 個但シ例外トシテ 4, 5, 7 個等ニ變化ス花絲ニ毛ナシ、花柱ハ 1 個、柱頭ハ 3 個殆ンド羽狀ヲナス、子房ニ毛ナシ、外果皮ハ薄シ。

南樺太、千島擇捉ノ中部以南、北海道、本島、四國、九州、濟州島、朝鮮(咸北明川郡)、鬱陵島ニ亘ル地方ニ 67 種アリ、其中朝鮮ニテハ咸北明川郡ニ 1 種、鬱陵島ニ 1 種、濟州島ニ 1 種アリ、次ノ如ク區別ス。

程鞘ノ基部ハ節ト共ニ球狀ニ肥大ス、程ハ分岐セズ。

1 程鞘ノ基部ハ節ト共ニ多少肥厚スレドモ球狀トナラズ、程ハ央以上ヨリ多ク分岐ス。 耽羅筐(たんなざさ)
1 年生ノ程ノ葉ハ基部弱心臟形ヲナシ裏面ニハ葉脈上ノ絹毛アリ、2 年生ノ程ノ枝ニ生ズル葉ハ裏面ノ中肋ニノミ毛アリ、3 年生以降ノ程ノ枝ヨリ生ズル葉ハ毛ナク基ハ尖ル。1 年生ノ程ノ節間ニハ逆毛アリ。 高麗筐(かうらいざさ)
2 1 年生ノ程ヨリ生ズル葉ハ基部丸キカ又ハ尖リ裏面ハ全ク無毛ナルカ又ハ中肋ニノミ微毛アリ、2 年目以降ノ程ヨリ出ヅル葉ニハ全然毛ナシ、1 年生ノ程ノ節間ニ毛ナシ。 千島筐(ちしまざさ)

6. (1) 耽羅筐(たんなざさ)

(第 VII 圖)

程ハ高サ 10-80 cm. 簾、節間、節共ニ毛ナク直徑 3-4 mm. 中空、綠色又ハ節ノ下ニ少シク紫色ヲ帶ブ、簾ハ長サ 50-87 mm. 先端ニ披針形ノ附屬物アリ、基ハ球狀ニ膨ミ直徑 5-6,5 mm. 舌狀體ハ長サ 1-1,5 mm. 無毛、肩ノ毛ハ發達惡シキ稀ニ生ズレドモ生ジタルモノハ剛直ニシテ放射状粗糙ナリ又發達惡シキモノニ短ク平タク平滑ナルモノアリ、葉ノ基ハ丸ク急ニ尖リテ長サ 3-7 mm. ノ葉柄ニ終ル、先端ハ急ニ長ク尖ル、葉身ハ橢圓形又ハ狹長橢圓形ナリ、主脈ハ中肋ノ左右ニ 6-11 本アリ、裏面

ハ稍高マル、葉ノ表面ハ綠色無色稍光澤アリ、裏面ハ淡綠色又ハ白味アリ顯微鏡下ニハ微毛ヲ認メ得、長サ 71-210 mm. 幅 14-66 mm. 未ダ花ヲ見ズ。

本島ノ中部以北ニ產スル仙臺筐ニ近キ種ナレドモ月ノ毛ノ發達惡シキト葉裏ニ長キ毛ナキコトニテ直ニ區別シ得。

濟州島ノ特產ニシテ漢拏山ノ濟州側ノ稜線俗ニ圓嶠ト稱スル邊ニハ純群落ヲナス。

7. (2) 高麗 笹 (かうらいざさ)

(第 VIII, IX 圖)

地下莖ハ複雜ニ頂生分岐ス。程ハ 4 年迄生キ央以上ハ 2 年目ヨリ分岐ス。1 年生ノ程ハ高サ 250-820 cm. 節間ハ長サ 30-67 mm. 直徑 3 mm. 許丸ク、逆毛アリ、節ハ多少高マリ細カキ逆毛アリ、籜ハ長サ 35-74 mm. 永存性下方ノモノハ縱脈ノ間ニ短カキ逆毛アリ、上方ノモノハ無毛、葉ハ程ノ先ニ 5-8 個 2 列ニ並ビテ出デ基ハ稍心臟形葉柄ハ 2-7 mm. 葉身ハ帶卵長橢圓形又ハ長橢圓形先端ハ長ク尖リ長サ 27-194 mm. 幅 9-48 mm. 表面ハ無毛綠色裏面ハ殆ンド絹毛ニテ被ハレ縁ニハ密ニ刺狀ノ毛アリ、主脈ハ中肋ノ兩側ニ縱ニ 6-10 本宛アリ、舌狀體ハ長サ 0.8-2 mm. 密ニ毛アリ、葉柄ノ背面基部ニ微毛アリ、節間ト節ニハ 1 年生 2 年生共ニ逆毛アリ、第 1 回目ノ枝ノ葉即チ 2 年目ノ葉ハ長サ 184 mm. 以下幅 39 mm. 以下ニシテ基ハ急ニ尖リ裏面ニハ中肋上ニノミ微毛アリ、第 2 回目ノ枝ノ葉即チ 3 年目ノ葉ハ長サ 125 mm 幅 31 mm. 以下裏ニハ毛ナキカ又ハ中肋ノ最基部ニ極メテ微毛アリ。第 3 回目ノ枝ハ始メ極メテ僅カニ逆毛アレドモ間モナク之ヲ失ヒ節ノ下ニ白キ粉アルノミ節ニモ毛ナシ、第 3 回目ノ枝ノ葉即チ 4 年目ノ葉ハ長サ 58-120 mm. 幅 12-20 mm. ヲ常トシ稀ニ其以下ノモノヲ混ズルコトアリ、基ハ長ク尖リ緣ニ剛毛アリ、未ダ花ヲ見ズ。

咸鏡北道明川郡上吉面雲滿台ニ約 2 里餘方里ニ亘リテ生ジ此所ノ特產種ナリ。

本種ハ大正 3, 4 年頃ヨリ内地人ノ注意ヲヒキ現水原高等農林學校教授農學士八田吉平氏ガ咸鏡北道ノ林務技師タリシ時大正五年標本ヲ著者ノ許ニ送リテ其検定ヲ依頼サレ翌年 1 月余ハ *Sasa coreana* ト命ジテ植物學雑誌上ニ發表セリ。

大正八年八月著者ハ冠帽峯北雪嶺ノ植物採收ヲ終ヘテ明川郡七寶山ノ

植物ヲ調査シ歸途此箇ヲ見ン爲メ陸路城津ニ向ヒ親シク其自生狀態ヲ觀察シ大ニ得ル所アリ、當時寫眞師トシテ著者ニ隨行セル本府雇荒井榮君ノ撮影シタルモノハ實ニ此所ニ示ス所ノ寫眞ナリ、其習性ハ最モ千島箇ニ近似スレドモ上記檢索表ニ示ス如キ諸點ニ於テ明ニ區別アリ其葉幅ノ廣キコトハ寫眞中ニモ明ニ認メ得ベシ。



高麗箇 大正八年八月、咸北、明川郡上古面雲満臺ニテ寫ス。

Sasa coreana in its type locality. Photograph was taken in August 1919.

8. (3) 千島箇 (ちしまざさ)
(第 X 圖)

甚ダシク群生シ程ノ高サハ 3-5m. トナリ無毛通例 5-6 年目ニ枯死ス、鬱陵島產ノモノハ北海道ノモノヨリ發育稍劣リ程ノ直徑 4-6 mm. アリ中空ナレドモ中洞ハ細シ、節ノ基ハ太ク白キ粉ヲフク、節ノ直徑ハ 5-8 mm. アリ、節間ノ長サハ 45-104 mm. 簾ハ始メ綠色ナレドモ次第ニ褪色シテ灰白色トナリ無毛ナリ、長サ 38-74 mm. 先端ニ長サ 1-32 mm. ノ附屬物アリ、此附屬物ハ外ニ反リ上方ノ簾程大サヲ増ス。葉ハ廣披針



千島筐群生ノ狀 蔵陵島上峯 900 m. 邊ニテ大正七年六月寫ス。

A forest on the highest peak of the Dagelet Island. *Sasa kurilensis* is seen in the foreground. Photograph was taken in June 1918.

形又ハ披針形長橢圓形又ハ狹長橢圓形ニシテ枝ノ先ニ 2-7 枚宛出デ長サ 72-197 mm. 幅 13-47 mm. 表面ハ綠色光澤アリ裏面ハ白味アリ無毛又ハ裏ノ中肋ノ基ニ微毛アリ、基脚ハ丸ク翼アル葉柄ニ向ヒ尖ル、縁ニハ刺狀ノ毛アルトナキモノトアリ、肩ノ毛ハ通例發達惡シク、ナキモノアレドモ生ズル時ハ 1-3 本放射狀ニ出デ剛直ニシテ粗糙ナリ、舌狀體ハ長サ 2-3.5 mm. 背面ニ短毛アリ、花序ハ複總狀ニシテ 3 年生又ハ 4 年生ノ稈ノ枝ノ側枝ニ生ズ、花梗ハ長サ 9-13 mm. 大型ノ苞鞘ニテ包マルル爲メ通例抽出セズ、基部ヲ除ク外ハ微毛アリ、花枝ハ角張リ毛アリ又小サキ苞ヲ有ス、小花穗ハ紫色ニシテ長サ 15-27 mm. 3-5 個ノ花ヲ附ケ基ニ長サ 1-2 mm. ノ 2 個ノ苞アリ、外穎ハ 1 個長サ 9-11 mm. 紫色ニシテ白キ粉ヲフキ格子目脈ヲ有シ縱脈著シク縁ニ小サキ毛アリ先端ハ尖レドモ芒狀ナラズ、内穎ハ 1 個長サ 7-9 mm. 背面ニ溝アリ先ニ 2 歯アリ紫色ナリ、花穎ハ 3 個極メテ小サク膜質、微毛アリ、雄蕊ハ 6 個花絲ト共ニ抽出シ無毛、葯ハ長サ 5 mm. 黃色ナリ、花柱ハ短ク柱頭ハ 3 個羽狀ナリ。

鬱陵島ニ産ス。

(分布)、南樺太、北海道、千島擇捉島以南、本島中部以北。

Gn. 4. **Sasa** MAKINO & SHIBATA in Tokyo Bot. Mag. XV, p. 18 (1901),
pro parte-HOUZEAU DE LEHAIE in Actes III^{me} Congrès Int. Bot. Bruxell-
II p. 214 (1910)-CAMUS, Bamb. p. 18 (1913), pro parte-NAKAI in Journ.
Arnold Arboretum VI p. 149 (1925).

Syn. *Arundinaria* Sect. *Bambusoides* SHIBATA & MAKINO in Tokyo Bot.
Mag. XIV, p. 20 (1900)

Pseudosasa MAKINO, Journ. Jap. Bot. V no. 4 p. 15 (1928), pro
parte, non MAKINO, Journ. Jap. Bot. II no. 4 p. 15 (1920), nec
NAKAI in Journ. Arnold Arb. VI p. 150 (1925).

Rhizoma repens ramosissimum. Culmi sympodiales glabri vel pilosi
vel velutini, simplices vel ramosi; nodi plus minus incrassati cum gemma
solitaria. Vaginæ culmorum glabræ-hispidulæ-velutinæ persistentes
apice appendiculatæ. Setae orales rigidæ radiatae seabrae albæ vel fusces-
centes vel nigræ, rarius haud evolutæ. Folia ex linearis-lanceolata ad
ovato-elliptica, ex glaberrima ad velutina. Inflorescentia laterales race-
mosæ vel paniculatæ. Spiculæ 2-9 floræ basi bibracteatae, floribus im-
bricatis distichis. Glumæ tessellatae, exterior maxima apice mutica vel
subaristato-acuminata, interior apice bidentata. Paleæ 3 homomorphæ
hyalinæ pilosæ. Stamina 6; filamenta glabra; antheræ biloculares con-
nectivo haud producto. Stylus 1. Stigmata 3 subplumosa vel pilosa.
Ovarium glabrum. Exocarpium membranaceum.

Species circ. 70 in Sachalin austr., Kuriles austr., Yesso, Hondo, Shikoku,
Kiusiu, Quelpaert, Dagelet & Korea (Prov. Kanhoku) indigenæ. In Korea
tantum species 3 adsunt.

Sasa Sect. **Crassinodi** NAKAI, Veget. Mt. Apoi Prov. Hidaka p. 24 (1930),
nom. seminud.; in MIYABE & KUDO, Fl. Hokkaido & Saghalien II p. 183
(10 Aug. 1930), cum diagnosi; in Tokyo Bot. Mag. XLVI p. 44 (1932).

Culmi indivisi vel semel divisi. Basis internodii valde incrassata ita
vagina culmorum et foliorum basi globoso-inflata. Setae orales vulgo bene
evolutæ. Inflorescentia laterales ex nodis inferioribus culmorum seaposo-
evoluta. Bractæ vulgo ex spicula remotæ.

Huc pertinent plantæ Japonenses supra 20. In Korea tantum unica Quelpærtensis huc ducenda.

6. (1) **Sasa quelpærtensis** NAKAI
(Tab. nostra VII)

Sasa quelpærtensis NAKAI in Rika Kyōiku (Scientific Education) XV no. 6, p. 73 (1932), nom. tantum.

Syn. *Sasa spiculosa* (non MAKINO) NAKAI, Veget. Isl. Quelpært, p. 22 no. 261 (1914).

Sasa paniculata (non MAKINO & SHIBATA) MORI, Enum. Corean Pl. p. 54 (1922).

In primo aspectu *Sasa sendaicum* in mentam vocat, sed foliis infra non hirtellis sed sub lente minutissime ciliolatis exqua statim dignoscenda.

Culmi 10–80 cm. alti cum vaginis, internodiis et nodis glaberrimis 3–4 mm. lati fistulosi virides vel infra nodos parce purpurascens. Vaginæ 50–87 mm. longæ apice lanceolato-appendiculatæ basi globoso-inflatæ ubi 5–6,5 mm. latae. Ligula 1–1,5 mm. longa glabra. Setæ orales saepe desunt, sed si adsunt radiatae rigidae scabré vel reductim abbreviatæ complanatae glabrae. Folia in apice culmi 2–4 elliptica—lineari-oblonga basi in petiolo abbreviatos 3–7 mm. longos rotundato-mucronata apice mucronato-acuminata, 71–210 mm. longa 14–66 mm. lata, nervis primariis utrinque 6–11 subtus parce elevatis, utrinque glabra supra viridia luciduscula infra glauca, margine setuloso-denticulata.

Nom. Jap. *Tanna-zasa*.

Hab.

Quelpært: in silvis 800 m. et supra (E. TAQUET no. 6198, typus in Herb. Imp. Univ. Tokyo); in declivitate boreale 1000 m. (T. NAKAI no. 4825); in monte Hallasan 1500 m. (T. ISHIDOYA no. 175); in declivitate montis Hallasan 500 m. (T. ISHIDOYA no. 175 bis).

Sasa Sect. **Macrochlamys** NAKAI in MIYABE & KUDO, Flora Hokkaido & Saghalien II p. 181 (1930).

Syn. *Arundinaria* Sect. *Bambusoïdes* SHIBATA & MAKINO in Tokyo Bot. Mag. XIV, p. 20 (1900), pro parte.

Sasa MAKINO & SHIBATA in Tokyo Bot. Mag. XV. p. 18 (1901),
pro parte.

Pseudosasa MAKINO, Journ. Jap. Bot. V no. 4 p. 15 (1928), pro
parte; non II no 4, p. 15 (1920).

Culmi supra medium ramosissimi ; nodi elevati. Vaginæ foliorum am-
plæ solutæ. Setæ orales vulgo destitutæ sed si evolutæ rigidæ radiatæ sca-
bræ. Inflorescentia cum pedunculo ex vagina magna haud vel parce ex-
erto, ita saepe secunda, in fructu ramis deflexis. Spiculæ basi bibracteatae.
Species 3 hic ducendæ, quarum duæ in Korea indigenæ.

7. (2) ***Sasa coreana* NAKAI**

(Tabula nostra VIII, IX)

✓ ***Sasa coreana* NAKAI** in Tokyo Bot. Mag. XXXI, p. 4 (1916); in Rika
Kyôiku XV no. 6 p. 73 no. 93 (1932).

Syn. *Sasa kurilensis* (non MAKINO & SHIBATA) MORI, Enum. Corean
Pl. p. 54 (1922), pro parte.

Rhizoma complicatum sympodiale ramosum. Culmi sympodiales qua-
driennes supra medium ramosissimi, hornotini cum foliis 250-820 mm.
alti; internodia 30-67 mm. longa 3 mm. lata teretia retrorso-pilosa ; nodi
plus minus prominentes minute retrorso-pilosæ; vaginæ 35-74 mm. longæ
persistentes inferiores inter venas longitudinales adpresse retrorso-pilosæ
superiores glabrae; folia 5-8 disticha basi subcordata in petiolem alatum
2-7 mm. longum decurrentia ovato-oblonga vel oblonga apice longe at-
tenuata 27-194 mm. longa 9-48 mm. lata supra glaberrima viridia infra
subsericeo-pilosella margine dense spinuloso-ciliata; nervæ longitudinales
primariae utrinque 6-10; ligula 0,8-2 mm. longa dense ciliolata : petioli
basi dorso adpresse ciliolata. Internodia et nodi ramorum primiorum
et secundariorum etiam retrorso-ciliata. Folia ramorum primiorum
usque 184 mm. longa 39 mm. lata basi mucronata infra secus costam pilo-
sellæ margine spinuloso-ciliata, ramorum secundariorum usque 125 mm.
longa 31 mm. lata infra circa basin costæ parcissime pilosella. Internodia
ramorum tertiorum parcissime retrorso-pilosa sed mox glabrecentia infra
nodos farinosa, nodi glabri. Folia ramorum tertiorum lanceolata vulgo
58-120 mm. longa 12-20 mm. lata glaberrima basi acuminata, margine

setulosa. Flores adhuc nostris ignoti.

Nom. Jap. Kôrai-zasa.

Hab.

Prov. Kanhoku : Unmandai oppidi Djôkomen tractus Meisen (K. HATTÀ, typus in Herb. Imp. Univ. Tokyo); ibidem (T. NAKAI no. 7649).

Planta endemica !

Species proxima ad *Sasa kurilensem*, sed exqua in ingeniis in clave sequente explanatis distincta.

Folia culmorum annuorum basi subcordata, infra supra venas totas subsericeo-pilosa. Internodia ramorum annuorum et biennium retrorso-pilosa.	..... <i>Sasa corcana</i> .
Folia culmorum annuorum basi acuta vel obtusa, infra glabra vel secus costam pilosella. Internodia semper glaberrima.	..... <i>Sasa kurilensis</i> .

8. (3) ***Sasa kurilensis* (RUPRECHT) MAKINO & SHIBATA**

(Tabula nostra X).

***Sasa kurilensis* (RUPRECHT) MAKINO & SHIBATA** in Tokyo Bot. Mag. XV p. 27 (1901)—MATSUMURA, Ind. Pl. Jap. II pt. 1 p. 96 (1905)—CAMUS, Bamb. p. 20 (1913)—MIYABE & MIYAKE, Fl. Saghalien p. 588 (1915)—NAKAI, Veget. Dagelet Isl. p. 15 (1919)—KUDO, Report Veget. N. Saghalien p. 62 (1924)—NAKAI in Journ. Arnold Arboret. VI p. 149 (1925)—MAKINO & NEMOTO, Fl. Jap. p. 1495 (1925)—MAKINO, Journ. Jap. Bot. V no. 2 p. 3 (1928)—NAKAI, Veget. Mt. Daisetsuzan p. 58 no. 249 (1930); in MIYABE & KUDO, Fl. Hokkaido & Saghalien II p. 182 (1930)—MAKINO & Nemoto, Fl. Jap. ed. 2, p. 1394 (1931).

Syn. *Arundo Donax* (non LINNÆUS) GEORGI, Geogr. Phys.-Naturhist. Beschr. Russ. Reich III 4, p. 705 (1802).

Arundinaria kurilensis RUPRECHT in Bull. Phys.-Math. Acad. St. Pétersb. VIII p. 121 (1850)—LEDEBOUR, Fl. Ross IV p. 395 (1853)—STEUDEL, Syn. Pl. Glum. I p. 335 no. 15 (1855)—MUNRO in Trans. Linn. Soc. XXVI p. 17 (1868)—A. & C. RIVIÈRE, Bamb. p. 16 (1878)—MAKINO in Tokyo Bot. Mag. XIV p. 67 (1900).

Arundinaria kurilensis var. *genuina* Fr. SCHMIDT in Mém. Acad.

Imp. Sci. St. Pétersb. 7 sér. XII 2, p. 198 (Fl. Sachalinensis) (1868).

Bambusa kurilensis MIYABE in Mem. Bost. Soc. Nat. Hist. IV p. 271 (1890)—MATSUMURA, Shokubutsu Meii p. 44 (1895).—HACKEL in Bull. Herb. Boiss. VII p. 719 (1899).

Arundarbor kurilensis O. KUNTZE, Rev. Gen. Pl. II p. 760 (1891).

Sasa paniculata (non MAKINO & SHIBATA) CAMUS, Bamb. p. 24 Pl. 2 fig. C & D (1913).

Pseudosasa kurilensis MAKINO, Journ. Jap. Bot. V no. 4, p. 15 (1928).

Sasa kurilensis var. *genuina* NAKAI in MIYABE & KUDO, l. c.

Culmi 3–5 metrales alti glaberrimi 4–5 ennes, in speciminibus Dageletianis 4–6 mm. lati; potius anguste fistulosi sub nodos incrassatos farinosi; nodi 5–8 mm. lati; internodia 45–104 mm. longa. Spathæ culmorum, virides primo glaucæ demum viridescentes 38–74 mm. longæ glaberrimæ apice obtusæ foliis appendiculatis 1–32 mm. longis instructæ, hæ appendices reflexæ et superiores longiores. Folia late lanceolata vel lanceolato-oblonga vel lineari-oblonga in apice ramorum disticho-2–7, 72–197 mm. longa 13–47 mm. lata supra viridia luciduscula infra glauca vel glaucina glaberrima vel secus partem inferiorem costæ parce pilosella basi obtusa in petiolem alatum mucronata apice attenuata, margine setulosa vel glabra integra, setæ orales subnullæ sed si evolutæ radiatim 1–3 scabrae. Ligulæ 2–3,5 mm. longæ dorso adpresso ciliolatae. Inflorescentia paniculata supra culmos triennes vel quadriennes semper ad ramulos lateralis, in speciminibus Dageletianis cum pedunculo 9–13 cm. longa; pedunculus occultans i.e. cum spathis bracteatis purpurascens imbricatis toto obtectus præter basin pilosus, ita inflorescentia subsecunda; rami angulati pubescentes minute bracteolati. Spiculæ purpurascentes 15–27 mm. longæ 3–5 floræ basi bracteis ovatis 1–2 mm. longis binis pilosis instructæ. Gluma exterior 9–11 mm. longa purpurea et glauco-farinosa nervis anastomosantibus longitudine striata margine minute ciliolata apice attenuata. Gluma interior 7–9 mm. longa dorso sulcata apice bidentata purpurascens. Paleæ 3 minimæ membranaceæ ciliolatae. Stamina cum antheris exertis glabra; antheræ 5 mm. longæ flavæ. Styli breves. Stigmata 3 plumosa.

Nom. Jap. *Chishima-zasa*.

Hab.

Dagelet : Mt. Jôhô (T. NAKAI no. 4118); sine loco speciali (K. OKAMOTO); supra oppidum Chôyadô 400 m. (T. ISHIDÔYA no. 7); in monte Rarikolbon (T. NAKAI no. 4117).

Distr. Sachalin, Kuriles austr., Yeso, Hondo bor. et media.

第五屬 苦竹(まだけ) 屬

地下莖ハ長ク地中ヲ匍匐ヒ稈ハ側生又ハ頂生通例壯大ナルモノ多シ、平滑、往々皺又ハ毛アルモノアリ、節ハ高マル、中空又ハ充實、芽ハ1節ニ3-5個宛生ズ、芽ト稈トノ間ニハ必ズ先端ノ2叉スル鱗片アリ、稈鞘ハ平滑又ハ有毛脱落シ先端ニ附屬物アリ、肩ノ毛ハヨク發達ス。葉ハ有柄葉鞘ト關節シ肩ノ毛ハ粗糙ニシテ放射狀ニ出ヅ、葉身ハ披針形又ハ長橢圓形格子目ヲ有シ葉緣ニハ小針狀ノ鋸齒アリ、花序ハ小枝ノ先端ニ生ジ大型ノ相重ナレル苞ニ包マレテ複花穗ヲナス。小花穗ニハ1-3個ノ花アリ、外穎ハ1個、内穎ハ1個先端2叉ス。花穎ハ3個通例不等形、雄蕊ハ3個長ク抽出シ下垂ス、葯ハ細長シ葯間ハ抽出セズ。子房ハ有柄又ハ無柄無毛、花柱ハ1個、柱頭ハ3(1-2)個。

支那、臺灣、交趾支那、東印度北部ニ亘リ約30種アリ、其中3種2變種ハ朝鮮ニモ栽培ス。

9. (1) 苦竹(まだけ)

(朝鮮名) オチュク

(慶南土名) ワンタイ

(第 XI, XII 圖)

地下莖ハ地中ヲ廣ク匍匐フ、其先端ガ岩ニ當リテ其上ニ出デ其ヨリ稈ヲ生ズル時即チ稈ノ基節ガ地下莖ノ1部ニ相當スル時ニ所謂實竹ヲナス、筍ハ5-6月稀ニ4月下旬又ハ遲レテ7月ニ入りテ出ヅ、籜ハ淡褐色ニ暗褐色ノ斑點アリ稍黒キ毛アリ、先端ニ細長キ附屬物ヲ附ク。稈ハ高サ10-30m. 直徑20cm. ニ達スルモノアリ、綠色ニシテ光澤ニ富メドモ日光ニ曝露スル側又ハ年ヲ経ルモノハ淡綠黃色トナル、中空ナリ。枝ト稈トノ間ニ幅廣キ先端ノ2叉スル大型ノ鱗片アリ。枝ハ各節ニ2-3個稀ニ4-5個宛出デ年ト共ニ多數ニ分岐ス。葉ハ無毛、小枝ノ先ニ2-5枚宛出デ披針形ヲナシ先端細ク長ク尖ル、長サ11-12cm. 幅12-16mm. 肩ノ毛ハ長ク放射狀ニシテ粘糙ニシテ通例共通ノ耳狀ノ突起物ト共ニ落ツ。葉

脈ハ格子目ヲナス、葉縁ニハ始メ小サキ鋸齒アリ、花序ハ小枝全部又ハ小枝ノ側枝ヨ古メ大型ノ相重ナレル苞ニ被ハレタル複小花穂ハ長サ5-10 cm. アリ、苞ハ倒卵形又ハ倒卵橢圓形ニシテ綠色縁ニ毛アリ格子目脈ヲ有ス、先端ニハ卵形又ハ帶卵披針形長サ 10-35 mm. 幅 4-20 mm. ノ附屬物アリ、各苞ハ 1-5 個ノ兩全花ト不完全花ヲ有スル小花穂ヲ包ム、小苞ハ 1 個、外穎ハ長サ 3 cm. 許綠色、背面上部ニ微毛アリ先ハ著シク尖ル、内穎ハ外穎ヨリモ少シク短ク先端 2 叉シ毛アリ、花穎ハ長橢圓形又ハ披針形無色縁ニ毛アリ、長サ 3-5 mm. 許、子房ハ卵形柄アリ、長キ無毛ノ花柱ヲ頂キ柱頭ハ 3 個

支那ノ原產ニテ朝鮮ニテハ慶尙南北道、全羅南北道、忠淸南道ニ植ユ。

10. (2) 黒竹 (くろちく)

地下莖ハ長ク横ニ匍ヒ帶黃色ヨリ紫黑色ニ變ズ、筍ハ 4-5 月ノ候ニ生ジ籜ハ帶綠褐色又ハ帶綠紅褐色ニシテ上方程色濃ク縦脈ハ色濃シ長サ 30-50 cm. 肩ニ耳狀ノ突起アリ、長キ粗毛ヲ有ス、舌狀體ハ狹披針形ナリ。程ハ高サ 3-20 m. 直徑 3-10 cm. 節間ハ 10-50 cm. ニ達ス。始メ綠色ニシテ節ノ下ニ白キ粉ヲ被リ冬ニ入リテ淡褐紫色トナリ翌年ノ秋ニ至リ暗褐紫色トナル特ニ日蔭ノ方程色濃シ枝ト稈トノ間ニ深ク披針狀ニ 2 裂スル大形ノ鱗片アリ。枝ハ溝ノ側ハ扁平ナリ。小枝ノ先端ニ 2-4 枚ノ葉ヲ附ケ葉ハ狹披針形ニシテ長クトガリ通例長サ 6-10 cm. 幅 1-1.5 cm. 許、緣ニ細カキ鋸齒アリ、脈ハ細カキ格子目ヲナス。中肋ノ裏面ニ微毛アリ、肩ノ毛ハ放散狀ニシテ粗糙ナリ、花序ハ圓錐花叢ヲナシ小枝ハ多數ノ小花穂ヲ有シ花密ナリ。苞ハ大型ニシテ幅廣ク相重ナリテ出デ各 2-5 個ノ小花穂ヲ包ム、小花穂ハ 1-4 個ノ兩全花ヲ有シ先端ニ無性花アリ、小苞ハ 1 個稀ニ之ヲ缺ク長サ 9-11 mm. 背面ト先端トニ毛アレモ基部ニ近ヅク程無毛トナル。外穎ハ長サ 12 mm. 内外 9-11 脈ヲ有シ毛多シ、内穎ハ外穎ヨリモ短ク先端 2 岐ス、背面ニ毛アリ、脈ハ内穎ノ如ク顯著ナラズ、花穎ハ 3 個淡黃色不顯著ナル 3 脈アリ概ネ不等形、雄蕊ハ 3 個極メテ長ク下垂ス。子房ハ長卵形花柱ハ長ク無毛柱頭ハ 3 個、淡竹ト共ニ約 60 年周期ニテ開花シ最近ハ 1902 年ヲ中心ニ 1890 年頃ヨリ 1915 年頃ニ終リ所ニ依リ全部枯死シテ其跡ヲ斷チシ事アリ。

朝鮮ノ南部ニ往々栽培ス、支那ノ原產ニシテ日本、印度支那、東印度、歐米ニ栽培ス。

黒竹ニ似テ 3 年生ノ稈ハ秋不規則ナル大小ノ暗紫色ノ斑紋ヲ生ズルア

リ之ヲ胡麻竹(第 XIII 圖)ト謂フ。黒竹ヨリハ多ク栽培サル。同ジク支那ノ原產ナリ。

稈ガ始メ綠色ニシテ秋ニ入レバ淡綠色トナリ年ヲ經ル程淡黃トナルモノヲ淡竹(はちく)ト謂フ籜ハ帶綠淡褐色又ハ淡紅褐色ニシテ斑紋ナシ、苦竹ニ亞ギテ多ク栽培ス、支那ノ原產ナリ。

11. (3) 孟宗竹(まうそうちく)

(第 XIV 圖)

地下莖ハ長ク地中ヲ匐ヒ節ハ 3-4 月ニ出デ側出、籜ハ綠褐色ニシテ黒褐色ノ斑點ヲ有シ背面ニ毛頗ル多ク先端肩ノ所ニ毛アリ、附屬物ハ披針形又ハ狹披針形ニシテ剛直ナリ。稈ハ高サ 5-35 m. 直徑 5-20 cm. ニ達シ通例太ク基部ニ於テハ節間短シ、始メ綠色ニシテ節ノ下ニ白キ粉ヲ附ケレドモ後次第ニ白粉ヲ失フ、晚秋ヨリ次第ニ光澤ヲ増シ年ヲ經ル程淡黃色トナル。枝ト稈トノ間ニ節ヨリ披針狀ニ 2 叉スル長サ 3-4 cm. ノ鱗片ヲ生ズ縁ニ毛アリ、枝ハ 1 節ニ 2-3 本宛出デ年ト共ニ分岐ヲ増ス。葉ハ小枝ノ先端ニ數枚宛出デ水平又ハ下垂ス、苦竹屬トシテハ軟ク淡綠色長サ 8-10 cm. 幅 8-10 mm. 許、披針形ニシテ始メ緣ニ鋸齒アレドモ後之ヲ失フ。葉脈ハ格子狀ナリ、舌狀體ハ多少毛アリ肩ノ毛ハ粗糙ナレドモ淡竹、苦竹ノ如ク著シカラズ、花序ハ枝ノ先ニ大型ノ圓錐花叢ヲナス。複合小花穗ハ大型ノ相重レル苞ニテ包マレ長サ 5-10 cm. アリ、苞ハ倒卵形ニシテ背面ニ毛アリ長サ 2.5-3 cm. 先端ニ披針形綠色葉狀ノ附屬物アリ、其長サ 7-18 mm 各 3 個ノ花ヲ有スル小花穗ヲ包ム、小花穗ハ長サ 25-27 mm ノ 1 個ノ兩全花ヲ中心ニ上下ニ各 1 個ノ不完全花ヲ有ス。小苞 1 個毛アリ、外穎ハ洋紙質淡綠色毛アリ先端トガル縱脈 10-11 本アリ多ク格子目ヲナス。内稈ハ外稈ヨリモ少シク短ク狹披針形ニシテ先ニ向ヒテトガリ最先端ハ 2 叉ス、上部ニ粗毛アリ、背面ノ溝ハ深シ、花穎ハ 3 個披針形又倒卵形又長橢圓形毛アリ雄蕊ハ長ク下垂シ花絲ハ薬ノ長サノ 4 倍アリ子房ハ細長ク花柱ハ基部膨ム細長ク無毛先端ニ毛アル 3 個ノ柱頭ヲ頂ク。

近年筍ヲ食用ニスルタメ内地ヨリ移植ヲ始メタリ、支那ノ原產ニシテ内地ニハ櫻町天皇ノ元文元年(西暦 1736 年)始メテ琉球ヨリ薩摩ニ移シ其レヨリ次第ニ各所ニ廣マレリ。

Klass. Akad. Wiss. Muenchen III p. 745 t. 3 fig. 3 (1843)—ENDLICHER, Gen. Pl. suppl. III p. 58 (1843)—MUNRO in Trans. Linn. Soc. XXVI p. 35 (1868)—KOCN, Dendrol. II p. 356 (1873)—BENTHAM & HOOKER, Gen. Pl. III p. 1208 (1883)—HACKEL in ENGLER & PRANTL, Nat. Pflanzenfam. II Abt. 2, p. 93 (1889)—HOUZEAU DE LEHIAIE in Actes III^{me} Congr. Int. Bot. Bruxellis II p. 218 (1910).—CAMUS, Bamb. p. 56 (1913).

Syn. *Bambusa* (non SCHREBER) MUNRO in Trans. Linn. Soc. XXVI, p. 87 (1868), pro parte.

Rhizoma longe repens. Culmi monopodiales atque sympodiales vulgo robusti et elati, glabri vel furcati vel pilosi. Nodi incrassati. Internodia fistulosa vel rarius solida. Gemmæ in quoque nodo 3—5. Inter gemmas et culmum squamis bifidis instructa. Vaginæ culmorum glabrae vel pubescentes, deciduae apice appendiculatae cum setis oralibus bene evolutis. Folia petiolata cum vaginis articulata, setis oralibus radiatis scabris. Lamina foliorum lanceolata vel oblonga tessellata margine spinuloso-ciliata. Inflorescentia in apice ramuli ab bracteis imbricatis magnis obtecto-decomposito-spiculosa. Spiculæ 1—3 floræ. Gluma exterior 1, interior 1 apice bidentata. Paleæ 3 vulgo inæquales. Stamina 3 longe exerta pendula. Antheræ angustæ elongatæ, connectivo haud producto. Ovarium stipitatum vel sessile glabrum. Stylus 1. Stigmata 3 (1—2).

Species circ. 30 in China, Formosa, Cochinchina, Annam, India bor. indigenæ, quarum 3 et varictates 2 in Korea cultæ.

✓ 9. (1) ***Phyllostachys reticulata* (RUPRECHT) KOCH.**

(Tabula nostra XI)

Phyllostachys reticulata KOCH, Dendrol. II pt. 2, p. 356 (1873)—MAKINO in Tokyo Bot. Mag. XXVI, p. 19 fig. VI (1912).—MAKINO & NEMOTO, Fl. Jap. ed. 2, p. 1375 (1931).

Syn. *Arundo Bambos* (non LINNÆUS) THUNBERG in Nov. Acta Reg. Soc. Sci. Upsaliensis IV p. 36 (1783), partim ; **Nov. syn.**

Bambusa reticulata RUPRECHT in Mém. Acad. Sci. St. Pétersb. 6 sér. III p. 148 (1840).

Phyllostachys bambusoides SIEBOLD & ZUCCARINI in Abh. Math.-Phys.-Klass. Akad. Wiss. Muenchen III p. 745 t. 5 fig. 3 (1843)—

STEUDEL, Syn. Pl. Glum. I p. 339 (1855)—MIQUEL in Ann. Mus. Bot. Lngd. Bat. II p. 284 (1866); Prol. Fl. Jap. p. 172 (1867)—FRANCHET & SAVATIER, Enum. Pl. Jap. II pt. 1. 182 (1876); excl. specimen no. 1491 a SAVATIER lectum; II pt. 2, p. 605 (1879)—RIVIÈRE, Bamb. p. 19 (1878)—HACKEL in Bull. Herb. Boiss. VII p. 718 (1899)—MAKINO in Tokyo Bot. Mag. XIV p. 63 (1900)—HACKEL in Bull. Herb. Boiss. 2 sér. V p. 529 (1904)—MATSUMURA, Ind. Pl. Jap. II pt. 1, p. 92 (1905)—PFITZER in Mitt. Deutsch. Dendrol. Gesells. XIV p. 62 (1905)—HOUZEAU DE LEHAIE in Actes III^{me} Congr. Int. Bot. Bruxells II p. 226 Pl. XLVIII, XLIX, LI (1910).—NAKAI in Journ. Coll. Sci. Tokyo. XXXI. p. 378 (1911)—MAKINO & SHIRASAWA, Icon. Bamb. Jap. I fig. 5–8 (1912).

Phyllostachys megastachya STEUDEL in Bot. Zeit. XXIX no. 2 p. 21 (1846); Syn. Pl. Glum. I p. 339 (1855).

Phyllostachys macrantha SIEBOLD & ZUCCARINI in Bot. Zeit. XXIX p. 34 (1846), teste MIQUEL.

Bambusa bifida SIEBOLD mss. in herb. ZUCCARINII ex MUNRO in Trans. Linn. Soc. XXVI p. 36 (1870).

Phyllostachys puberula (non MIQUEL) FRANCHET & SAVATIER, Enum. Pl. Jap. II pt. 1 p. 184 (1876), pro parte, quoad specimen no. 1496 a SAVATIER lectum; **Nov. syn.**

Phyllostachys Quilioi RIVIÈRE, Bamb. p. 241 fig. 25–27 (1878).—BEAN in Gard. Chron. 3 ser. XV pt. 1 p. 431 fig. 52 (1894).—MAKINO in Tokyo Bot. Mag. IX p. 73 (1895)—MATSUMURA, Shoku-butstu meii p. 214 (1895)—SATOW in Trans. Asiat. Soc. Jap. XXVII pt. 3 p. 22 cum. tab. (1899)—PFITZER in Mitt. Deutsch. Dendrol. Gesells. XIV, p. 60 (1905)—NOHL in Mitt. Deutsch. Dendrol. Gesells. XXIV p. 98 t. 16 (1915).

Phyllostachys bambusoides forma *Zitchiku* MAKINO in Tokyo Bot. Mag. XIV p. [63] (1900). *error, not true*

Rhizoma longe repens. Turiones in mensis Maio et Junio (rarius Apri-lio vel Julio) evolutæ. Vaginæ fuscescentes atro-fusco-maculatæ et ni-grescente pilosæ apice appendiculatæ. Culmi 10–30 m. alti 3–20 cm. dia-metientes virides lucidi aprici vel vetusti flavidо-viriduli; internodia

fistulosa. Squamæ magnæ bilobatae dilatatae inter ramos et culmus adsumt. Ramuli in quoque nodo 2-3 (rarius 4-5). Folia glabra in apice ramulorum 2-5 linearis-lanceolata apice longe anguste attenuata 11-12 cm. longa 12-16 mm. lata. Setæ orales radiatae scabré vulgo in margine processus ortæ et quacum deciduae. Nerves tessellatae. Folia margine primo minute spinuloso-ciliata. Inflorescentia totam partem vel ramulos laterales ramorum occupat spicam 5-10 cm. longam cum bracteis magnis imbricatis format. Bracteæ obovatae vel obovato-ellipticae virides margine ciliatae tessellatae apice appendicibus ovatis vel ovato-lanceolatis 10-35 mm. longis 4-20 mm. latis portant. Quaque bractea spiculam 1-5 floram obtecta. Bracteolæ 1. Gluma exterior 1 circ. 3 cm. longa viridis dorso superiore ciliolata apice manifeste acuminata. Gluma interior 1 exteriore brevier apice bifida pilosa. Paleæ 3 oblongæ vel lanceolatae hyalinae margine pilosæ 3-5 mm. longæ. Ovarium ovoides stipitatum stylo glabro elongato coronatum. Stigmata 3.

Planta Sinica, in Korea australi longe culta.

✓ 10. (2) **Phyllostachys nigra** (RUMPHIUS) MUNRO

Phyllostachys nigra (RUMPHIUS) MUNRO in Trans. Linn. Soc. XXVI, p. 38 (1868)-Koch, Dendrol. II pt. 2 p. 357 (1873)-RIVIÈRE, Bamb. p. 19 & 255 (1878)-BEAN in Gard. Chron. 3 sér. XV pt. 1 p. 369 fig. 46 (1894)-MAKINO in Tokyo Bot. Mag. IX p. 73 (1895)-SATOW in Trans. Asiat. Soc. Jap. XXVII pt. 3. p. 52 (1899)-HACKEL in Bull. Herb. Boiss. VII p. 719 (1899)-PRITZER in Mitt. Deutsch. Dendrol. Gesells. XIV p. 61 (1905)-MATSUMURA, Ind. Pl. Jap. II pt. 1 p. 95 (1905)-NOHL in Mitt. Deutsch. Dendrol. Gesells. XXIV p. 99 (1915).

Syn. *Arundarbor nigra* RUMPHIUS, Hort. Amboin. IV p. 18 (1743).

Bambusa nigra LODDIGES & Son, Cat. Pl. p. 4 (1823)-SCHULTES, Syst. Veget. VII p. 1355 (1830)-LINDLEY in PENNY, Cyclop. III p. 357 (1835)-RUPRECHT in Mém. Acad. Sci. St. Pétersb. 6 sér III p. 148 (1840).

Arundinaria stolonifera KURZ in Cat. Pl. in Bot. Gard. Culcutta (1865) p. 79.

Bambusa puberula MIQUEL in Ann. Mus. Bot. Lugd. Bat. II p. 258

(1866) pro parte; Prol. Fl. Jap. p. 173 (1867), pro parte.

Phyllostachys puberula var. *nigra* MAKINO in Tokyo Bot. Mag. XIV p. [64] (1900)—MATSUMURA, Ind. Pl. Jap. II pt. 1, p. 95 (1905)—HOUZEAU DE LEHAIE in Actes III^{me} Congrès Int. Bot. Bruxells II p. 223 (1910)—MAKINO & SHIRASAWA, Icon. Bamb. Jap. I fig. 9–11 (1912).

Rhizoma longe repens primo flavescentis demum purpureo-nigricans. Turiones in mensis Aprilio et Maio evolutae, vaginis viridescenti-fuscis vel viridi-rubricundi-fuscis ad apicem intensoribus et venis longitudinalibus intensus coloratis, 30–50 cm. longis apice laterali auriculato-appendiculatis et longe barbatis, appendicibus apicalibus lanceolatis reflexis. Culmi 3–20 m. alti diametro 3–10 cm., internodia 10–15 cm. longa primo viridia et sub nodos farinosa in hieme fuscescenti-purpurascens et in autumno sequentis anni atro-fusco-purpurascens præcipue latere umbroso intensiora. Squamæ lanceolato-bifidæ magnæ inter culmus et ramos adsunt. Rami latere gemmifero plani. Folia in apice ramulorum 2–4 linearis-lanceolata longe attenuata vulgo 6–10 cm. longa 1–1,5 cm. lata margine minute spinulosa subtus supra costam pilosella, nervis tessellatis. Setæ orales radiatæ scabré. Inflorescentia paniculata, ramuli dense spiculosi. Bracteæ magnæ et dilatatae imbricatae cum spiculis 2–5. Spiculæ 1–4 floræ sed flos terminalis semper sterilis. Bracteola unica vel abest 9–11 mm. longa dorso superiore pilosa ad basin glabrescens. Gluma exterior 1, circiter 12 mm. longa 9–11 nervia pubescens. Gluma interior 1 exteriore brevior apice bifida dorso ciliata nervis quam exterior indistinctis. Paleæ 3 flavidulæ indistincte 3-nervæ vulgo heteromorphæ. Stamina 3 longissima pendula. Ovarium oblongo-ovatum. Stylus 1 elongatus glaber. Stigmata 3.

Planta Sinica, in Korea australi hic illuc cultata.

***Phyllostachys nigra* forma *punctata* NAKAI.**

(Tabula nostra XIII)

***Phyllostachys nigra* forma *punctata* (BEAN) NAKAI, comb. nov.**

Syn. *Phyllostachys nigra* var. *punctata* BEAN in Gard. Chron. 3 sér. XV pt. 1 p. 431 (1894).—MAKINO in Tokyo Bot. Mag. IX p. [73] (1895).

Phyllostachys puberula var. *nigra* forma *nigro-punctata* MAKINO
in Tokyo Bot. Mag. XIV p. [64] (1900)—MATSUMURA, Ind. Pl.
Jap. II pt. 1, p. 95 (1905).

Phyllostachys puberula var. *punctata* MAKINO apud NAKAI in Journ.
Coll. Sci. Tokyo XXXI p. 378 (1911).

Phyllostachys puberula var. *nigropunctata* HOUZEAU DE LEHAIE in
Actes III^{me} Congrès Int. Bot. Bruxells II p. 223 (1910).

Culmi triennes in autumno punctis vel maculis inæqualibus atro-pur-
pureis maculati.

Nom. Jap. *Goma-dake*.

Planta Sinica, in Korea rarius cultur.

✓ *Phyllostachys nigra* var. *Henonis* (MITFORD) STAPF in herb. Kew ex
RENDLE in Journ. Linn. Soc. XXXVI p. 443 (1904)—TSUEOR, Illus Jap.
Bamboos pl. IX (1914).

Syn. *Bambos hatsik* Japon ex SIEBOLD, Syn. Pl. Oecon. Jap. p. 5 (1830),
nom. und.

Bambusa Tsintskik SIEBOLD in Jaarb. Tuinbow (1844) p. 24, nom.
nud.

Bambusa puberula MIQUEL in Ann. Mus. Bot. Lugd. Bat. II p. 285
(1866), pro parte; Prol. Fl. Jap. p. 173 (1867), pro parte.—FRAN-
CHET & SAVATIER, Enum. Pl. Jap. II pt. 1, p. 184 (1876), excl.
specimen no. 1496 a SAVATIER lectum (1876).

Bambusa Henonis hort. ex BEAN in Gard. Chron. 3 sér. XV pt. 1,
p. 368 (1894).

Phyllostachys Henonis MITFORD, Bamboo Gardens p. 149 (1896)—
STAPF in HOOKER, Icon. Pl. XXVII t. 2614 (1901)—PILGER in
ENGLER, Bot. Jahrb. XXIX p. 227 (1900); in Mitt. Deutsch.
Dendrol. Gesells. XIV p. 62 (1905).

Phyllostachys Fauriei HACKEL in Bull. Herb. Boiss. VII p. 718
(1899); 2 sér. IV p. 525 (1904).

Phyllostachys puberula MAKINO in Tokyo Bot. Mag. XIV p. [64]
(1900)—HOUZEAU DE LEHAIE in Actes III^{me} Congrès Int. Bot.
Bruxells II p. 220 t. LII—LIV (1910).—MAKINO & SHIRASAWA,
Icon. Bamb. Jap. I fig. 1—4 (1912).

Vaginæ turionum viridi-fuscescentes vel rubicundi-fuscae immaculatæ.
Culmi primo virides in auctumno viriduli demum sensim pallescentes.

Nom. Jap. *Hatsiku*.

Nom. Kor. *So-on-tai*.

Planta Sinica, in Korea australi culta.

11. (3) **Phyllostachys pubescens** MAZEL

(*Tabula nostra XIV*)

Phyllostachys pubescens MAZEL ex HOUZEAU DE LEHAIE, Bamboo p. 7 (1906); in Actes III^e Congrès Int. Bot. Bruxells II p. 223 Pl. LV-LVII (1910); in Bull. Soc. Dendrol. France no. 14 p. 254 cum phot. in p. 257-260 (1909).—CAMUS, Bamb. p. 59, Pl. 26 fig. A (1913).

Syn. *Bambos moosoo*, Japon ex SIEBOLD, Syn. Pl. Oecon. Jap. p. 5 (1830), nom. nud.

Bambusa edulis CARRIÈRE in Rev. Hort. XXXVII, p. 380 (1866)
cum syn. *B. mitis* hort. (non POIRET).

Dendrocalamus sp.? MATSUMURA, Cat. Pl. Herb. Imp. Univ. p. 238 (1886).

Phyllostachys mitis (non RIVIÈRE, nec MITFORD) BEAN in Gard. Chron. 3 ser. XV, p. 369 (1894)—MATSUMURA, Shokubutsu Meii p. 214 (1895)—Satow in Trans. Asiat. Soc. Jap. XXVII pt. 3 p. 35 cum pl. color. (1899).—MAKINO in Tokyo Bot. Mag. XV p. 64-69 (1901)—MAKINO & SHIRASAWA, Icon. Bamb. Jap. pl. III fig. 7-11 (1911).

Phyllostachys edulis (non RIVIÈRE) TSUBOI, Illus. Jap. Bamb. p. 18 pl. XV (1914).

Rhizoma longe repens. Turiones in mensis Martii et Aprili evolutæ monopodiales. Vaginæ viridi-fuscae atro-fusco-maculatæ dorso pubescentes et apice ore barbatæ et terminali lanceolato- vel lineari-lanceolato rigide appendiculatæ. Culmi 5-35 m. alti diametro 5-20 cm. basi cum nodis proximis primo virides infra nodos farinosi demum denudati autumno provectione lucidiores et anno provectione sensim pallescentes. Squamæ 3-4 cm. longæ apice bifidæ margine ciliatæ inter culmus et ramos evolutæ. Rami in quoque nodo 2-3 ramulosi. Folia in apice ramulosum nonnulla vulgo dependentia 8-10 cm. longa 8-10 mm. lata lanceolata primo margine

spinulosa demum denudata, nervis tessellatis. Ligula plus minus pilosa, Setae orales scabridæ. Inflorescentia paniculata. Spiculae decompositæ spicam longam bracteis magnis imbricatis spinulas obtectis, 5-10 cm. longæ. Bracteæ obovatae convolutæ dorso pilosæ 2,5-3 cm. longæ apice appendicibus lanceolatis viridibus 7-18 mm. longis coronatae. Spiculae 3-floræ 25-27 mm. longæ, flore mediano perfecto et supremo et infimo vacuo vel infimo masculo. Bracteola 1 pilosa. Gluma exterior chartacea viridis pilosa apice attenuata 10-11 nervia vulgo tessellata. Gluma interior exteriore brevior linear-lanceolata apice bifida superiore hispidula, dorso sulcata. Paleæ 3 lanceolatae vel obovatæ vel oblongæ pilosæ. Stamina longissima pendula. Filamenta antheras 4-plo superantia. Ovarium oblongum. Stylus basi incrassatus glaber. Stigmata 3 pilosa.

Nom. Jap. *Môsô-chiku*.

Planta Sinica. In 1736 ex Liukiu in Satsuma transplantata et nunc in Japonia in regionibus calidis et temperatis late plantatur, sed in Korea post annexum ex Japonia importata.

(五) 朝鮮ニ自生又ハ栽培スル竹類ノ和名、朝鮮名、
學名ノ對稱表

和 名	朝 鮮 名	學 名
や だ け	シンウ キティ(一般名) サンジュ(全南)チヨ クティ、スリテヤ、 スリデ、シユテ(濟州島)	<i>Pseudosasa japonica</i> MAKINO.
むらさきやだけ		<i>Pseudosasa japonica</i> MAKINO var. <i>purpurascens</i> NAKAI.
き し う す ず か う ら い す ず	カツテ	<i>Sasamorpha gracilis</i> NAKAI.
ぢ だ け	カツテ(一般名)、マクトエギ(全南)	<i>Sasamorpha chiisanensis</i> NAKAI. <i>Sasamorpha purpurascens</i> NAKAI var. <i>borealis</i> NAKAI.
め だ け		<i>Pleioblastus Simonii</i> NAKAI.
た ん な ざ さ		<i>Sasa quelpartensis</i> NAKAI.
か う ら い ざ さ		<i>Sasa coreana</i> NAKAI.
ち し ま ざ さ		<i>Sasa kurilensis</i> MAKINO & SHIBATA.
ま だ け	オチュク(一般名)ワンタイ(慶南)ウオンタイ(全南)	<i>Phyllostachys reticulata</i> KOCH.
く ろ ち く ど ま だ け		<i>Phyllostachys nigra</i> MUNRO <i>Phyllostachys nigra</i> forma <i>punctata</i> NAKAI.
は ち く	ソオンタイ	<i>Phyllostachys nigra</i> var. <i>Henonis</i> STAPF. <i>Phyllostachys pubescens</i> MAZEL.
ま う そ う ち く		

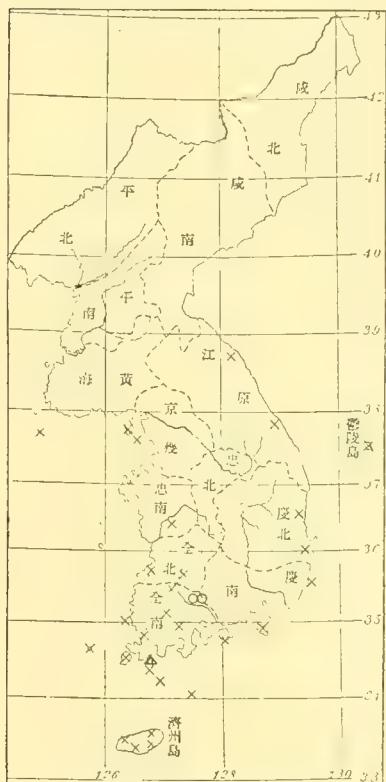
(六) 朝鮮ニ自生スル竹類ノ分布

やだけハ箭ヲ作ル材料即チ昔時ニアリテハ恰モ今日ノ鋼鏡ニモ比スペキ必要缺グベカラザル武器ノ材料ナリシヲ以テ其栽培ヲ極度ニ獎勵セリ、而シテ竹類ハ地下莖ヲ以テ自由ニ繁殖スルヲ以テ本來自生品ナカリシ地ニモ生ヒ茂リ現時ニアリテハ眞ノ自生品トモト栽植セシモノガ繁殖シテ自生化シタルモノトヲ區別シ難シ、やだけハモト暖地ニ適スル故朝鮮ノ南部ニ最モ多ク既ニ日本海側トナレバ江原道ノ高城ノ海岸近キ方面、慶北ニテハ鬱陵島又ハ浦口ノ如キ暖流ノ影響アル地慶南ニテハ蔚山又ハ東萊郡機張面竹島ノ如キ海岸又ハ島ニアリテ内陸ニハ繁殖シ難シ、黃海側ニテハ黃海道大青島、白鶴島ヲ北限トシテ京畿道ノ江華島、德積島ノ如キ暖流ニ保護サル、地ニノミアリ内陸ニ生ズルハ忠南ノ中部以南ナリ、其分布ノ狀ハ地圖第1ニ示スガ如シ。

すずみだけ類 *Sasamorpha* ハささ屬ヨリモ分布廣ク其1種タルぢだけハ北ハ平南ノ小白山方面、咸南ノ楸愛山ヨリ始マリ江原道ノ脊陵山脈ニ沿ヒテ南ニ走リ西ハ黃海道ノ長壽山ニ及ビ江原道ノ太白山ヨリ2ツニ分レ1ハ慶北、慶南ノ東部脊陵山脈ヲ走リテ鷲棲山ニ下リ1ハ忠北ノ俗離山ヨリ德裕山、伽耶山、智異山ヲ經、忠南ノ雞龍山、全南ノ白羊山、無等山、海南ノ大屯山ヲ經テ莞島ノ觀音山ニ及ブ。其分布ノ狀ハ地圖第2ニ示スガ如シ。本屬ノ他ノ2種ハ極メテ極限サレタル分布ヲナシ高麗すずハ智異山彙ノ300-500 m. 邊ニ多ク紀州すずハ全南ノ莞島ニノミアリ。紀州すずハ内地ニテハ紀州ノ高野山、伊豆ノ天城山ニアレドモ稀品ニシテすずだけ又ハぢだけノ如ク分布廣キモノニ非ズ斯ク分布ガ飛ビ飛ピトナリ居ルハ其間ニ介在スル地方ニ自生アルモ調査不充分ノ爲メニ知レ居ラヌカ又ハ此竹ノ發生ガ古クシテ今ハ斯ル小區域ニ限リテ残リ居ルカニ基クモノナルベシ。

ささ類 *Sasa* ハ朝鮮ニテハ種類甚ダ少ク之ヲ内地ニ於テ既ニ約70種モ發見サレ居ルニ比シ餘リニモ少キ様ナレドモ元來ささ類ハ日本列島ニ限り發達セル屬ニシテ朝鮮ハ其西ノ分布ノ極限ヲナシ居ルニ過ギザルナリ、然シナガラ朝鮮ノ氣候風土ガささ類ノ生育ニ不適當ナラヌハぢだけノ分布ニテモ知リ得ベク若シ南権太又ハ北海道ノ筐類ヲ移植スレバ必ズヤ同地方ト同ジク林業上厄介ナル筐藪ヲ形成スベシ但シ朝鮮ニ禿山ノ多キハ1ハ其土質ニ依リ1ハ筐類ノ如キ地ヲ縛ル類ノ少キ爲メナリ。朝鮮ニ自生スルささ類ハ其分布極メテ限定サレたんざさハ濟州島ノ漢拏山

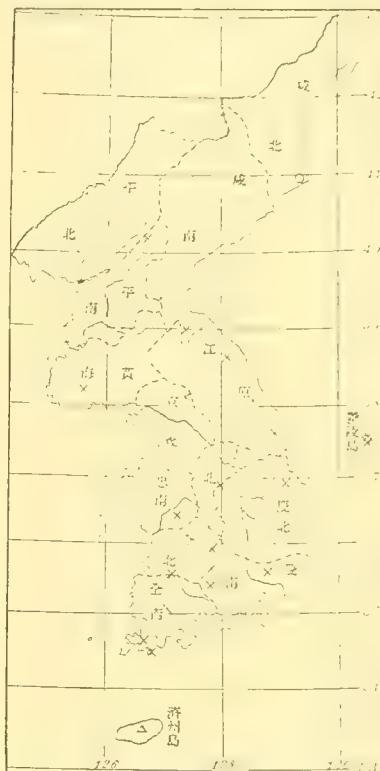
ニノミ限り。千島笹ハ鶴陵島ニノミ限りテ生ジテ本植物分布ノ西限ヲナシ、高麗笹ハ咸北明川郡上古面雲滿臺ニノミアリテ同地ノ特產種トナリ居ルナリ。



×やだけ *Pseudosasa japonica*

△紀州すず *Sasamorpha gracilis*

○高麗すず *Sasamorpha chiisanensis*



×ちだけ *Sasamorpha purpurascens*
var. *borealis*

△たんなざさ *Sasa quelpaertensis*

○高麗ざさ *Sasa coreana*

ヰ千島ざさ *Sasa kurilensis*

楊 梅 科
Myricaceae Lindley

(一) 主要ナル引用書類

著 者 名

M. ADANSON
H. BAILLON
F. T. BARTLING
G. BENTHAM & J. D. HOOKER
A. BONPLAND, AL. DE HUMBOLDT, C. S. KUNTH.
D. BRANDIS
AUG. CHEVALIER
C. DE CANDOLLE
J. J. DILLENIUS
L. A. DODE
S. ENDLICHER
A. ENGLER
J. S. GAMBLE
P. P. GISEKE
J. GÆRTNER
H. F. HANCE

書 名

1) *Gale* in Familles des plantes II p. 345 (1763).
2) *Myriceæ* in Histoire des plantes VI p. 259 (1877)
3) *Myriceæ* in Ordines Naturales Plantarum p. 98-99
(1830).
4) *Myricaceæ* in Genera Plantarum III p. 400-401
(1880).
5) *Myriceæ* in Nova Genera & Species Plantarum II
p. 13-15 t. 98 (1817).
6) *Myricaceæ* in The Forest Flora of North-West and
Central India p. 495-496 (1874).
7) *Myricaceæ* in Indian Trees p. 620 (1921)
8) Monographie des *Myricacées* in Mémoires de la
Société des Sciences naturelles et mathématiques
de Cherbourg XXXII, p. 85-341 (1901).
9) *Myricaceæ* in Prodromus Systematis Naturalis
Regni Vegetabilis XIV pt. 2, p. 147-155 (1864).
10) *Gale* in Catalogus Plantarum, Plantæ post editum
catalogum circa Gissam observatæ p. 154 t. X
(1719).
11) *Myricacées* in LECOMTE, Flore générale de l'Indo-
Chine V p. 932-935 (1929)
12) *Myriceæ* in Genera Plantarum p. 271 (1836).
13) *Myriceæ* in Enchiridion Botanicum p. 157-158 (1841).
14) *Myriceæ* in ENGLER & PRANTL, Die Natürliche Pflan-
zenfamilien III Abt. 1, p. 26-28 (1887).
15) *Myricaceæ* in A Manual of Indian Timbers ed. 1,
p. 391 (1881).
16) *Myricaceæ* in idem ed. 2, p. 664-665 (1902).
17) *Amentaceæ* in LINNÆUS, Praelectiones ad Ordines
Plantarum p. 578-585 (1792).
18) *Myrica* in De Fructibus et Seminibus Plantarum
I p. 190-191 t. 39 fig. 7 (1788),
19) *Myrica (Morella) adenophora* in BRITTON, The Jour-
nal of Botany XXI, p. 357 (1883).

A. L. DE JUSSIEU 20) *Amentaceæ* in *Genera Plantarum* p. 407-411 (1789).

R. KANEHIRA & S. SASAKI 21) An Enumeration of Formosan Trees in the Tai-hoku Herbarium, III (*Myricaceæ*) in *Journal of the Society of Tropical Agriculture* IV no. 3 p. 318-319 (1932).

C. A LINNÆUS 22) *Myrica* in *Genera Plantarum* ed. 1, p. 302 (1737).

23) *Amentaceæ* in *Philosophia Botanica* p. 28 (1751).

24) *Myrica* in *Species Plantarum* ed. 1, p. 1024 (1753).

25) *Myrica* in *Genera Plantarum* ed. 5, p. 449 (1754).

J. LINDLEY 26) *Myriceæ* in *A Synopsis of the British Flora* p. 243 (1829).

27) *Myriceæ* in *An Introduction to the Botany* p. 100-101 (1830).

28) *Myricaceæ* in *A natural system of Botany* p. 179-180 (1836).

J. DE LOUREIRO 29) *Morella & Morella rubra* in *Flora Cochinchinensis* ed. 1, p. 548 (1790).

30) *Morella & Morella rubra* in *idem* ed. 2 p. 656, 669-670 (1793).

C. F. MEISSNER 31) *Myriceæ* in *Plantarum Vascularium Genera I* p. 351 (1836).

F. A. G. MIQUEL 32) *Myriceæ* in *Annales Musei Botanici Lugduno-Batavi III* p. 129 (1867).

C. MOENCH 33) *Myrica* in *Methodus ad Plantas agri et horti botanici Marburgensis I* p. 362 (1794).

C H. PERSOON 34) *Myrica* in *Synopsis Plantarum II*, p. 614 (1807).

L. C. RICHARD 35) *Myricées* in *Demonstrations Botaniques* p. 193 (1808).

H. N. RIDLEY 36) *Myricaceæ* in *The Flora of the Malay Peninsula III* p. 370-371 (1924).

W. ROXBURGH 37) *Myrica integrifolia* in *Flora Indica III* p. 765-766 (1832).

J. ST. HILAIRE 38) *Amentaceæ* in *Expositions des plantes II* p. 315-324 (1805).

C. K. SCHNEIDER 39) *Myrica* in *Plantes de la France VI t 542-543* (1819).

40) *Myricales* in *Illustriertes Handbuch der Laubholzkunde I* p. 70-74 fg. 28-32 (1904).

PH. FR. DE SIEBOLD & J. G. ZUCCARINI 41) *Myriceæ* in *Abhandlung der Akademien von Muenchen IV Abt. 3* p. 230-231 (1846).

S. A. SKAN 42) *Myricaceæ* in Journal of the Linnaean Society, London, Botany XXVI, p. 496 (1899).

E. Spach 43) *Myriceæ* in Histoire naturelle des Végétaux XI p. 256-266 (1842).

C. E. VENTENAT 44) *Amentaceæ* in Tableau du règne Végétale III p. 550-573 (1799).

N. WALLICH 45) *Myrica sapida* in Tentamen Floræ Nepalensis illustratæ p. 59-61 t. 45 (1824).

P. B. WEBB & S. BERTHELOT 46) *Faya et Faya fragifera* in Histoire naturelle des îles Canaries Tome III p. 272-273 t. 216 (1836-50).

R. WIGHT 47) *Myrica integrifolia* in Icones Plantarum Indiæ Orientalis III t. 765-766 (?).

E. H. WILSON 48) *Myricaceæ* in SARGENT, Plantæ Wilsonianæ III p. 189 (1916).

(二) 朝鮮產楊梅科植物研究ノ歴史、其効用

朝鮮ニ楊梅科植物ノアル事ヲ報ゼシハ余ノ濟州島植物調査報告書(1914年版)ヲ以テ嚆矢トナス。即チ其第36項ニやまもも *Myrica rubra* SIEBOLD & ZUCCARINI ヲ記シ置ケリ。やまももハ朝鮮ニ於ケル唯一ノ楊梅科植物ニシテ北地ノ卑濕地ニ普遍スルやちやなぎ *Gale japonica* CHEVALIER ノ如キハ朝鮮ニ近キ烏蘇利、本島ノ中部以北、北海道、樺太等ニハアレドモ未ダ朝鮮ニテ發見セシ事ナシ、而シテやまももト雖モ唯濟州島ノ山麓ノ海拔 300 m. 以下ノ地ニノミアリ。内地ニハやまももノ大實ノモノ又ハ白實ノモノアレドモ濟州島ニテハ兩者共ニナク唯普通ノやまももノミナリ、やまももノ果實ヲ食用ニ供スルハ人ノ周知スル所ニシテ濟州島ニテモ住民ハ之ヲ食セドモ内地ノ如ク殊更ニ其樹ヲ保護増殖セズ、樹皮ヨリハ單寧ヲ採リ得ベク又「カーキ」色ノ染媒ニ用フ、然レドモ濟州島ニテハ之ヲ利用スル程多カラズ。

(三) 朝鮮產楊梅科植物ノ分類

楊 梅 科

喬木又ハ灌木、雌雄同株又ハ異株、屢々樹脂質ノ腺ヲ有シ香氣アリ、葉ニ托葉アルモノトナキモノトアリ、互生、有柄、1年生又ハ2年生、羽

狀脈アリ、全緣又ハ鋸齒アリ稀ニ羽狀ニ缺刻ス。花穗ハ前年ノ枝ノ葉腋ニ1個乃至數個宛生ズ、單性又ハ兩性、兩性花穗ハ上部雌花ニシテ下部雄花ナリ、單性花穗ハ或ニ雌性又ハ雄性、雄花ハ各1個ノ苞ヲ有シ花托上ニ2-4個ノ小苞アリ其各小苞ニ2個乃至多數ノ雄蕊ヲ有ス。雄蕊ニ花絲アリ、薬ハ2室上方ト側方トニ開ク。雌花ハ1個ノ苞ト通例1-2對(稀ニ多數)ノ小苞トヲ有シ子房ハ無柄1室、花柱ハ短カキカ又ハナシ、柱頭ハ2個内面ガ受粉部トナル、卵子ハ1個直立1個ノ珠皮アリ、核果ハ球形又ハ卵形外面ハ粒狀、内果皮ハ堅シ、種子ハ直立シ種皮ハ膜質胚乳ナシ、胚ハ屈曲セズ、幼根ハ向上。

世界ニ3屬50余種アリ主トシテ熱帶及ビ暖帶地方ニアレドモやちやなぎ屬ハ寒地ニ生ズ朝鮮ニハ濟州島ニ1屬1種アルノミ。

やまもも屬

雌雄同株又ハ異株ノ喬木又ハ灌木、葉ハ單葉2年生有柄全緣又ハ鋸齒アリ托葉ナシ、少クモ裏面ニハ脂腺アリ、花穗ハ腋生若シ雌雄同様ナル時ハ雌花ハ花穗ノ上部ニアリ、雄花ニ2-20個ノ雄蕊アリ、雌花ハ2-4個又ハ多數ノ小苞ヲ有ス。果實ハ核果、外果皮ハ白色、黒色、血紅色又ハ黒血紅色ニシテ食用トナルモノアリ。

熱帶、暖帶、溫帶ニ約40種アリ。

やまもも

ソグナム(濟州島土名)

(第 XV 圖)

雌雄異株ノ喬木、成木スルトキハ概形丸キモノ多シ、樹皮ハ灰色、枝及ビ芽ニ毛ナシ、葉ハ2年生互生密生ス、萌枝ノ葉ハ倒披針形ニシテ長サハ170 mm.ニ達スルアリ短カキ葉柄ニ向ヒ漸次細マル。縁ニハ銳鋸齒アリ、羽狀脈ニシテ葉先ハ尖ル。果實ヲ附クル枝ノ葉ハ倒披針形ニシテ長サ34-94 mm.幅8-27 mm.殆ンド全緣又ハ全ク全緣先ハ或ニ丸ク又ハ急ニ短クトガリ又ハ單ニ銳角ヲナス下方ハ長サ2-3 mm.ノ葉柄ニ向ツテ漸次細マル、表面ハ主脈ガ稍凹ミ深綠色裏面ハ淡綠色ニシテ中肋ハ隆起ス。雄花穗ハ長サ2-4 cm.通例分岐セズ基部ニ小サキ鱗片狀ノ小苞相重ナリテ生ズ、花ハ苞ノ間ニ腋生ス。苞ハ扁タキ半球形ニシテ背面ニ樹脂點アリ長サ1 mm.以内、花托ハ長サ約1 mm.2-3個ノ小苞アリ各小苞ニ3-4個ノ雄蕊アリ、花絲ハ約1 mm.薬ハ黒紅色長サ1 mm.2室

側方ニ開キ葯間ハ發達セズ、雌花穂ハ長サ約 10 mm. 全長ニ苞アリ、各苞ニ各 1 個ノ雌花アリ、2 対ノ相對立スル小苞ニ包マル、子房ハ卵形極メテ小サク先端ニ 2 個ノ柱頭アリ、核果ハ球形直徑 10-15 mm. 成熟スレバ紅色ヨリ黒紅色ニ化シ多漿質ニシテ食シ得。

濟州島南側ノ海拔 300 m. 以下ノ地ニ生ズ。

(分布) 本島、四國、九州、壹岐、對馬、琉球、臺灣、支那。

Myricaceæ LINDLEY, Nat. Syst. Bot. p. 179 (1836), pro parte—C. DE CANDOLLE, Prodr. XVI pt. 2, 147 (1864).—BENTHAM & HOOKER, Gen. Pl. III p. 400 (1880)—ENGLER in Nat. Pflanzenfam. III Abt. 1, p. 26 (1887)—CHEVALIER in Mém. Soc. Sci. Nat. Math. Cherbourg XXXII, p. 174 (1901)—SCHNEIDER, Illus. Handb. I p. 70 (1904)—RIDLEY, Fl. Malay. Penins. III p. 370 (1924).

Syn. *Amentaceæ* LINNÆUS, Phil. Bot. p. 28 (1751), pro parte—JUSSIEU, Gen. Pl. p. 407 (1789), pro parte.—GISEKE, Prælect. p. 578 (1792), pro parte—VENTENAT, Tabl. III p. 550 (1799), pro parte—J. ST. HILAIRE, Exposit. II p. 315 (1805), pro parte.

Myricées L. C. RICHARD, Demonst. Bot. p. 193 (1808)—A. RICHARD, Élem. Bot. ed. 4 p. 561 (1828), excl. *Casuarina*.—BAILLON, Hist. Pl. VI p. 259 (1877).

Myriceæ KUNTH, Nov. Gen. II p. 13 (1817)—LINDLEY, Syn. Brit. Fl. ed. 1, p. 242 (1829); Introd. Bot. p. 100 (1830)—DUMORTIER, Analyse p. 12 (1829)—BARTLING, Ord. Nat. Pl. p. 98 (1830)—MEISSNER, Pl. Vasc. Gen. I p. 351 (1836)—ENDLICHER, Gen. Pl. p. 271 (1836)—SPACH, Hist. Végét. XI, p. 256 (1842)—AGARDH, Theor. p. 176 (1858).

Taxeæ d. *Myriceæ* REICHENBACH, Consp. p. 79 (1828).

Galeaceæ P. BUBANI, Fl. Pyren. I p. 49 (1897).

Myricacées DODE in LECOMTE, Fl. Gén. Indochine V p. 932 (1929).

Arbores vel frutices monoeci vel dioici sæpe reginoso-glandulosi aromatici. Folia exstipulata vel stipullata alterna petiolata annua vel biennia penninervia, integra vel serrata vel pinnatifida. Amenta in axillis foliorum annotinorum axillaria solitaria vel decomposita, biserialia vel uniserialia. Amenta si bisexualia inferiore mascula, si unisexualia femi-

nea vel mascula. Flores masculi cum bractea 1, toro bracteolis 2-4 pro quaque bracteola staminibus 2-20. Stamina cum filamentis; antheræ biloculares apicali-laterali dehiscentes. Flos faemineus cum bractea 1, bracteolis 1-2 paribus oppositis rarius numerosis, ovario sessile 1-loculare, stylo breve vel nullo ramis 2 intus stigmatosis, ovulo 1 orthotropo cum integmento unico. Drupa globosa vel ovoidea extus papillosa, endocarpio duro. Semen erectum, testa membranacea, exalbuminosum. Embryo rectus, radicula supera.

Genera 3, species circiter 50 maxime in regionibus tropicis et calidis incolæ, sed genus *Gale* in regionibus temperatis vel frigidis incolum. In Korea tantum species unica in Quelpaert sponte nascit.

Myrica (non DIOSCORIDES⁽¹⁾) LINNÆUS, Gen. Pl. ed. 1, p. 302 no. 746 (1737), pro parte; Sp. Pl. ed. 1, p. 1024 (1753), pro parte; Genera Pl. ed. 5, p. 449 no. 981 (1754), pro parte—GERTNER, Fruc. & Sem. Pl. I p. 190 t. 37 fig. 7 (1788)—JUSSIEU, Gen. Pl. p. 407 (1789), pro parte—GISEKE, Praelect. p. 580 (1792)—MOENCH, Method. I p. 362 (1794)—VENTENAT, Tabl. III, p. 557 (1799), pro parte—J. ST. HILAIRE, Exposit. II, p. 318 (1805), pro parte—PERSOON, Syn. II p. 614 (1807), pro parte—ENDLICHER, Gen. Pl. p. 271 no. 1839 (1836), pro parte—SPACH, Hist. XI, p. 260 (1842)—C. DE CANDOLLE, Prodr. XVI pt. 2, p. 147 (1864), pro parte—BAILLON, Hist. Pl. VI, p. 259 (1877), pro parte—BENTHAM & HOOKER, Gen. Pl. III, p. 400 (1880), pro parte—SCHNEIDER, Illus. Handb. I, p. 70 (1904)—DODE in LECOMTE, Fl. Gén. Indochine V p. 932 (1929).

Syn. *Gale* (non TOURNEFORT) ADANSON, Fam. Pl. II, p. 345 (1763), pro parte.

Morella LOUREIRO, Fl. Cochinch. ed. 1, p. 548 (1790); ed. 2, p. 669 (1793).

Faya WEBB & BERTHELOT, Phyt. Can. III p. 272 (1836-50).

Arbores vel frutices monoeci vel dioici. Folia simplicia biennia petiolata integra vel serrata exstipillata infra reginoso-punctata. Spica axillaris si monoeci flores faeminei parte superiore spicæ positi. Stamina in quoque flore masculo 2-20 cum filamentis. Flores faeminei cum bracteolis 2-4 vel numerosis. Fructus drupaceus matura alba, nigra, sanguinea,

(1) *Myrica* of DIOSCORIDES is *Tamarix*.

vel atro-sanguinea exocarpio saepe edule.

Species circ. 40 in regionibus tropicis et subtropicis rarius temperatis incola. In Korea solum unica nascit.

Myrica rubra SIEBOLD & ZUCCARINI

(*Tabula nostra XIV*)

Myrica rubra SIEBOLD & ZUCCARINI in Abh. Muench. Akad. IV 3 p. 230 no. 806 (1846)—FRANCHET & SAVATIER, Enum. Pl. Jap. I p. 454 (1875)—MATSUMURA, Nippon Shokubutsumeii p. 125 (1884); Cat. Herb. Imp. Univ. p. 177 (1886); Shokubutsu Meii p. 192 (1895)—MATSUMURA & HAYATA, Enum. Pl. Formos. p. 391 (1906), pro parte—SHIRASAWA, Icon. Ess. Forest Trees Jap. II t. 6 fig. 12-23 (1908)—MATSUMURA, Ind. Pl. Jap. II pt. 2, p. 6 (1912)—NAKAI, Veget. Quelpaert p. 36 no. 480 (1914)—WILSON in SARGENT, Pl. Wilson. III p. 189 (1916)—KANEHIRA, Formos. Trees p. 541 (1917)—MORI, Enum. Corean Pl. p. 112 (1922)—MAKINO & NEMOTO, Fl. Jap. p. 1118 (1925); ed. 2, p. 176 (1931), pro parte.—REHDER in Journ. Arnold Arboret. X p. 118 (1929).

Syn. *Jamma momu* BANKS, Icon. t. 37 (1791).

Myrica Nagi (non THUNBERG) CAS. DE CANDOLLE, Prodr. XVI pt. 2, p. 151 (1864), excl. syn.—MIQUEL in Ann. Mus. Bot. Lugd. Bat. III, p. 129 (1867); Prol. Fl. Jap. p. 293 (1867)—HOOKER fil. in Bot. Mag. XCIV t. 5725 (1868)—BENTHAM & HOOKER, Gen. Pl. III pt. 1, p. 401 (1880)—ENGLER in Nat. Pflanzenfam. III 1, p. 27 (1889)—CHEVALIER, Monogr. p. 116 (1901).

Myrica rubra & *rubra* MAKINO in Tokyo Bot. Mag. XXVI, p. 394 (1912).

Daphne Argyi LÉVEILLÉ in Mém. R. Acad. Ci. Art. Barcelona sér. 3. XII no. 22 p. 22 (1916).

Arbor dioica adulta ambitu sphærica, cortice griseo. Rami et gemmæ glabri. Folia biennia alterna dense collocata, trionum oblanceolata usque 170 mm. longa in petiolem brevem sensim angustatum margine argute serrata penninervia apice acuminata, ramorum fructiferorum oblanceolata 34-94 mm. longa 8-27 mm. lata subintegra vel integerrima apice obtusa vel mucronulata vel acuta basi petiolos 2-3 mm. longos sensim angustata

supra venis primariis parce impressis viridissima infra pallida costa elevata. Spica mascula 2–4 cm. longa vulgo simplex basi bracteis parvis squamosis imbricatis suffulta; flores in axillis bractearum evoluti, bractea depresso-hemisphaerica dorso resinosa vix 1 mm. longa, torus circiter 1 mm. longus 2–3 bracteolatus, in quaque bracteola stamna 3–4. filamenta vix 1 mm. longa, antherae atro-sanguineae 1 mm. longae biloculares laterali dehiscentes, connectivum haud evolutum. Spica fæminea circiter 10 mm. longa in totam longitudinem bracteata, in parte superiore flos fæmineus in quaque bractea solitarius, bracteolæ 4 bipares ovato-acuminatae, ovarium minimum ovoidicum apice ramis styli binis coronatum. Drupa matura 10–15 mm. lata sphaerica ex viride per sanguineam in atro-sanguineam variat, exocarpio succoso edule.

Nom. Jap. *Yama-momo*.

Nom. Quelpærtense. *Sog-nam*.

Hab.

Quelpært: in silvis Hongno (U. FAURIE no. 1541); secus torrentes Hongno (E. TAQUET no. 4704); in silvis Hioton (E. TAQUET no. 5980); in declivitate australe pede montis Hallasan (T. NAKAI no. 4890); pede montis Hallasan (T. NAKAI no. 474); in latere boreale pede montis Hallasan (T. NAKAI no. 336).

Distr. Hondo, Shikoku, Kiusiu, Iki, Tsusima, Gotô, Liukiu, Formosa et China.

In Liukiu and Formosa, a narrow leaved variety *Myrica rubra* var. **acuminata**, comb. nov. (*Myrica Nagi* β . *acuminata* C. DE CANDOLLE) is more frequent than the ordinary form.

Myrica rubra var. **acuminata** NAKAI, comb. nov.

Syn. *Myrica Nagi* β *acuminata* C. DE CANDOLLE, Prodr. XVI pt. 2, p. 151 (1864).

Myrica rubra (non SIEBOLD & ZUCCARINI) MATSUMURA & HAYATA,
Enum. Pl. Formos. p. 391 (1906), pro parte—MATSUMURA, Ind.
Pl. Jap. II 2 p. 6 (1912), pro parte—MAKINO & NEMOTO, Fl. Jap.
p. 1118 (1925), pro parte; ed. 2 p. 176 (1931), pro parte.

Myrica rubra var. *formosana* HAYATA in sched. Herb. Imp. Univ.
Tokyo.

Nom. Jap. *Nagaba-Yamamomo*.

Hab.

Liukiu : Okinawa (J. MATSUMURA).

Formosa : Ochôbi (B. HAYATA); Kelung (T. MAKINO); Byôritsu (T. KAWAKAMI).

Myrica Nagi THUNBERG, Fl. Jap. p. 76 is *Podocarpus Nagi* ZOLLLINGER & MORITZ. The specimen in Uppsala University is composed of one fruiting branch and one seedling of *Podocarpus Nagi*. CASHMIR DE CANDOLLE also referred GÆRTNER's *Nageia japonica*, but as we see in the figures of Tab. XXXIX of De Fructibus et Seminibus Plantarum I, it is also *Podocarpus Nagi*. KANEHIRA and SASAKI reduced *Myrica adenophora* var. *Kusanoi* HAYATA into this species saying that the former was named upon such specimens of *Myrica nagi* (*M. rubra*) which grown on an exposed and windswept places. But, in our herbarium-specimens, the fruits are twice or four times as much smaller than the fruits of *Myrica rubra*. I can not believe that wind and sun light will change the size of fruits as such.

胡 桃 科

Juglandaceae Lindley

(→) 主要ナル引用書類

著者名	書名
ADANSON, M.	1) <i>Nux</i> in Familles des Plantes II p. 497 (1763).
AGARDH, J. G.	2) <i>Juglandaceæ</i> in Theoria Systematis Plantarum p. 218-219 (1858).
AITON, W. T.	3) <i>Juglans</i> in Hortus Kewensis ed. 2, V. p. 295-297 (1813).
ANDRÉ, ED.	4) <i>Platycarya strobilacea</i> in Revue Horticole LX p. 88-89 (1888).
BAILLON, H.	5) <i>Juglandacées</i> in Histoire des plantes XI p. 401-407 (1892).
BARTLING, F. T.	6) <i>Juglandæ</i> in Ordines Naturales Plantarum p. 397 (1830).
BAUHINUS, C.	7) <i>Juglans</i> in Pinax Theatri Botanici p. 416-417 (1623).
BEAN, W. J.	8) Trees and Shrubs hardy in the British Isles (1914), <i>Carya</i> in I p. 298-301 Pl. 1; <i>Juglans</i> in I p. 662-668; <i>Platycarya</i> in II p. 204; <i>Pterocarya</i> in II p. 261-264 Phot. II.
BENTHAM, G. & HOOKER, J. D.	9) <i>Juglandæ</i> in Genera Plantarum III p. 397-400 (1880).
BOERHAAVE, H.	10) <i>Nux</i> in Index alter Plantarum II p. 175 (1720).
DALECHAMPS, J.	11) <i>Nux Juglans</i> in Historia Generalis Plantarum I p. 320-325 (1587).
DE CANDOLLE C. P.	12) Mémoire sur la Famille des <i>Juglandées</i> in Annales des Sciences naturelles 4 sér. XVIII p. 1-48, Pl. I-VI (1862).
„	13) <i>Juglandaceæ</i> in Prodromus Systematis Naturalis Regni Vegetabilis XVI pt. 2, p. 134-146 (1864).
DIPPEL, L.	14) <i>Juglandaceæ</i> in Handbuch der Laubholzkunde II p. 316-343, fig. 146-157 (1892).
DODE, L. A.	15) Contribution a l'étude du genre <i>Juglans</i> in Bulletin de la Société Dendrologique de France I p. 67-98 (1906), IV no. 11 p. 22-50 (1909), p. 165-215 (1909).
„	16) <i>Juglandacées</i> in LECOMTE, Flore Générale de l'Indo-Chine V p. 922-932 (1929).

DUHAMEL DU MONCEAU 17) *Nux* in *Traité des Arbres et Arbustes II* p. 49-55
(1755).

DUMORTIER, B. C. 18) *Juglandineæ* in *Analyse des familles des plantes*
p. 11-12 (1829).

DUNN, S. T. & TUTCHER, W. J. 19) *Juglandaceæ* in *Flora of Kwantung and Hongkong*
in *Bulletin of Miscellaneous Information, Kew, Additional Series X* p. 250-251 (1912).

EICHLER, A. W. 20) *Juglandaceæ* in *Blütendiagramme II* p. 32-40 (1878).

ENDLICHÉR, S. 21) *Juglandeæ* in *Genera Plantarum* p. 1125-1127 (1840).

ENGLER, A. 22) *Juglandaceæ* in *Natürliche Pflanzenfamilien III*
Abt. 1 p. 19-25 (1887).

FRANCHET, A. 23) *Juglandaceæ* in *Plantæ Davidianæ I* in *Nouvelles Archives du Muséum de Paris sér. 2, VII* p. 92 (1884).

FRANCHET, A. & SAVATIER, L. 24) *Juglandaceæ* in *Enumeratio Plantarum Japonicærum I* pt. 2 p. 455-456 (1875).

GAERTNER, J. 25) *Juglans* in *De Fructibus et Seminibus Plantarum II* p. 50-51 t. 89 fig. 1 (1791).

GISEKE, P. D. 26) *Amentaceæ* in LINNÉ, *Prælectiones in Ordines Naturales Plantarum* p. 578-585 (1792).

GMELIN, J. F. 27) *Juglans* in *Systema Naturæ II* pt. 1 p. 742, 755 (1791).

HANCE, H. F. 28) *Juglans mandshurica* in TRIMEN, *Journal of Botany XIII* p. 135 (1875).

DE JUSSIEU, A. L. 29) *Terebinthaceæ* in *Genera Plantarum* p. 368-376 (1789).

KOEHNE, E. 30) *Juglandaceæ* in *Deutsche Dendrologie* p. 68, 69-76, fig. 23-24 (1893).

KOMAROV, V. 31) *Juglandaceæ* in *Acta Horti Petropolitani XXII*
(*Flora Manshuriæ II*) p. 9-13 (1903).

KORSCHINSKY, S. 32) *Juglandaceæ* in *Acta Horti Petropolitani* (*Flora Amurensis*) XII p. 48 (1892).

KUNTH, C. S. 33) *Juglandeæ* in *Annales des Sciences Naturelles II*
p. 343-346 (1824).

DE LAMARCK, J. B. & DE DANDOLLE, A. P. 34) *Terebinthaceæ* in *Synopsis Plantarum in Floram Gallicam descriptarum* p. 364-365 (1806).

LAURE, W. 35) *Juglandaceæ* in *Deutsche Dendrologie* p. 301-310
(1880).

LINDLEY, J. 36) *Juglandeæ* in *An Introduction to the Botany* p.

101 (1830).

LINDLEY, J.

37) *Juglandaceæ* in A Natural System of Botany p. 180 (1836).

LINNÆUS, C.

38) *Juglans* in Genera Plantarum ed. 1 p. 291 (1737).

"

39) *Amentaceæ* in Philosophia Botanica ed. 1 p. 28 (1751).

"

40) *Juglans* in Species Plantarum ed. 1. p. 997 (1753).

"

41) *Juglans* in Genera Plantarum ed. 5 p. 431 (1754).

LOUDON, J. C.

42) *Juglandaceæ* in Arboretum et Fruticetum Britannicum III p. 1420–1452 (1838)

MAKINO, T. & NEMOTO, K.

43) *Juglandaceæ* in Flora of Japan p. 1115–1118 (1925).

"

44) *Juglandaceæ* in Flora of Japan ed. 2, p. 176–179 (1931).

MATSUMURA, J.

45) *Juglandaceæ* in Index Plantarum Japonicarum II pt. 3 p. 4–5 (1912).

MAXIMOWICZ, C. J.

46) *Juglans mandshurica* in Mélanges Biologiques II p. 417–418 (1856).

"

47) *Juglandaceæ* in Primitiæ Floræ Amurensis p. 76–78 (1859).

"

48) *Juglandaceæ* in Asia orientali hucusque observatae in Mélanges Biologiques VIII p. 630–640 (1873).

MAYR, H.

49) Fremdländische Wald- und Park-bäume für Europa: *Juglans* p. 476–479 fig. 200–203; *Platycarya* p. 492; *Pterocarya* p. 496–497 fig. 218 (1906).

MIQUEL, F. A. G.

50) *Juglandaceæ* in Annales Musei Botanici Lugduno-Batavi III p. 103–104 (1867).

MOENCH, C.

51) *Juglans* in Methodus ad Plantas Agri & Horti Botanici Marburgensis I p. 696 (1794).

NAKAI, T.

52) *Juglandaceæ* in Flora Koreana II p. 200 (1911).

NAUDIN, C.

53) *Fortunaea chinensis* in Revue Horticole 2 sér., V p. 282–283 (1846).

PAMPANINI, R.

54) *Juglandaceæ* in Le Piante Vascolari raccolte del Rev. P. C. SILVESTRI nell' Hu-peh durante gli anni 1904–1907, in Nuovo Giornale Botanico Italiano, nuova serie XVII p. 249 (1910).

PERSOON, C. H.

55) *Juglans* in Synopsis Plantarum II pt. 2 p. 566–567 (1807).

PETZOLD, E. & KIRCHNER, C.

56) *Juglandaceæ* in Arboretum Muscavense p. 334–339 (1864).

PRITZEL, E.

57) *Juglandaceæ* in DIELS, Flora von Centralchina in

RAY, J. 58) *De Juglande in Historiae Plantarum II* p. 1376-1379 (1688).

REHDER, A. 59) *Carya* in BAILEY, Standard Cyclopedia of Horticulture II p. 675-678 (1914); *Juglans* in III p. 1721-1724 (1915); *Platycarya* in V, p. 2708 (1916); *Pterocarya* in V, p. 2853-2854 (1916).

" 60) *Juglandaceæ* in Journal of the Arnold Arboretum IV (The Ligneous Plants of Northern China) p. 146-148 (1923).

" 61) *Juglandaceæ* in Manual of Cultivated Trees and Shrubs p. 125-133 (1927).

REHDER, A. & WILSON, E. H. 62) *Juglandaceæ* in SARGENT, Plantæ Wilsonianæ III pt. 1, p. 180-188 (1916).

ST. HILAIRE, J. 63) *Terebinaceæ* in Exposition des familles naturelles des plantes II p. 248-263 (1805).

SCHNEIDER, C. K. 64) *Juglandales* in Illustrirtes Handbuch der Laubholzkunde I p. 74-96 fig. 33-52 (1904).

SKAN, S. A. 65) *Juglandaceæ* in Journal of the Linnaean Society, London, Botany XXVI (HEMSLEY, Index Floræ Sinensis II) p. 493-495 (1884).

SKVORTZOW, B. W. 66) The Manchurian Walnut in Manchuria Research Society, Natural History Society ser. A. fasc. 32 p. 1-11 (1929).

Spach, E. 67) *Juglandaceæ* in Histoire des Végétaux II p. 163-183 (1824).

TOURNEFORT, J. P. 68) *Nux* in Institutio Rei Herbariae p. 581 t. 346 (1700).

CH. LEMAIRE 69) *Platycarya strobilacea* in Flore des Serres IV t. 331 fig. 99 (1848).

VENTENAT, E. P. 70) *Terebinaceæ* in Tableau du règne Végétale III p. 438-460 (1799).

VON HERDER, F. 71) *Juglandaceæ* in Acta Horti Petropolitani XII p. 48 (1892).

WALPERS, G. G. 72) *Fortunæa* in Annales Botanices Systematicæ I p. 201-2 (1849).

WILDENOW, C. L. 73) *Juglans* in Berlinische Baumzucht p. 153-156, 435 (1796).

" 74) *Juglans* in Species Plantarum IV pt. 1 p. 455-459

(1805).

WILDENOW, C. L.

75) *Juglans* in *Enumeratio Plantarum Horti Regii Botanici Berolinensis* p. 978-979 (1809).
76) *Juglans* in *Die Wilde Baumzucht* p. 192-197 (1811).

(二) 朝鮮産胡桃科植物研究ノ歴史

朝鮮ノ胡桃科植物ヲ最初ニ記セシハ和蘭國ノ MIQUEL 氏ニシテ 1867 年「ライデン」植物館年報第 III 卷(Annales Musei Botanici Lugduno-Batavi) 103 頁ニけのぐるみヲ新變種トシテ *Platycarya strobilacea* var. *coreana* MIQUEL ナル名ヲ與ヘテ記述セリ。

1873 年露國ノ C. J. MAXIMOWICZ 氏ハ *Bulletin de l'Académie des Sciences de St. Pétersbourg* 3 séries 第 18 卷 64 頁ニ同植物ヲ普通ノのぐるみ *Platycarya strobilacea* トシテ記セリ。

1884 年英國ノ S. A. SKAN 氏ハ W. B. HEMSLEY 氏ノ *Index Florae Sinensis* 第 2 部 495 頁ニ同植物ヲ單ニのぐるみトシテ發表セリ。

1900 年露國ノ JWAN PALIBIN 氏著 *Conspiclus Florae Koreæ* 第 2 卷 47 頁ニモ同様のぐるみトシテ發表セリ。

1903 年露國ノ VLADIMIR KOMAROV 氏ハ朝鮮ノ北部ニ滿洲ぐるみ *Juglans mandshurica* ノ產スル事ヲ其著 *Flora Manshuriæ* 第 2 卷 9 頁ニ記ス。

1904 年奧國ノ C. K. SCHNEIDER 氏ハ其著 *Illustriertes Handbuch der Laubholzkunde* 第 1 卷ニ同ジク滿洲ぐるみガ朝鮮ニアル事ヲ記セリ。

1911 年著者ハ其著 *Flora Koreana* 第 2 卷ニのぐるみト滿洲ぐるみトガ朝鮮ニ產スル事ヲ記セリ。

1912 年著者ハ米人 Dr. R.ELPH G. MILLS 氏ノ採收品ヲ研究シテ *Plantæ Millsianæ Koreanæ* トシテ植物學雜誌第 26 卷ニ發表セシ中ニハ江界產ノ滿洲ぐるみモ編入シアリ。

1914 年著者ノ記セル濟州島植物調查報告書ニハ濟州島ニ胡桃科植物トシテのぐるみノミアル事ヲ記ス。

1915 年著者ノ記セル智異山植物調查書ニハ同ジクのぐるみヲ記ス。

1918 年著者ノ記セル金剛山植物調查書ニハ同山ニ滿洲ぐるみノ自生アルヲ報ズ。

1922 年森爲三氏著朝鮮植物名集ニハまんしうぐるみ、てうちぐるみ、

のぐるみノ 3種ヲ記ス。其中てうちぐるみハ栽培種ナリ。

(三) 朝鮮產胡桃科植物ノ用途

朝鮮產胡桃科植物中最モ有用ナルハまんしうぐるみニシテ其材ハ銃床ニ用キル爲メ大正年間ニハ北朝鮮ヨリ夥シク伐リ出シタル爲メ今ハ殆ンド利用スペキモノヲ失ヒタルハ惜シムベシ。近時總督府ニテハ之ガ植栽ヲ獎勵シ居ル故今後 20-30 年ニテ又相當收益ヲ得ルニ至ルベシ。其果實ハ食用ニ供シ得レモ殼ノ割レ易カラザル事ト食用トナル子葉ノ部ノ小サキトニテてうちぐるみニ劣ル故產地ノ土民ガ利用スルノミニテ商品トナラズ、反之てうちぐるみハ其種子ヲ利用スル目的ニテ昔時支那ヨリ移シ今ハ黃海、京畿、江原以南ノ地ニ多ク栽植シ殊ニ忠北産ハなつめト共ニ其名高シ、市場ニ出ヅルてうちぐるみハ朝鮮產ノミナラズ支那ヨリモ輸入スルト謂フ。

のぐるみハ堅キ材ヲ有スレモ大木少キ故薪トスル外利用サレズ、其果實ト樹皮トニハ多量ニ單寧ヲ含有スル故内地殊ニ中國、九州ニテハ漁網ヲ染ムルニ用フレドモ朝鮮ニテハ濟州島ニテ稀ニ用キル外此方面ニ利用スルヲ聞カズ。

(四) 朝鮮產胡桃科植物ノ分類

胡 桃 科

小喬木又ハ喬木雌雄同株異花、葉ハ互生 1 年生奇數羽狀複葉、小葉ハ羽狀葉ヲ有シ鋸齒アルモノトナキモノトアリ。雄花穗ハ前年ノ枝ノ先ニ近キ側方ノ葉腋ニ出デ無柄、又ハ有柄、下垂ス、單一ナルモノト總狀花序ノモノトアリ、又往々若枝ノ基部ニテ繖房花序ヲナシテ下垂シ又ハ側出ノ若枝ノ先端ニアリテ直立スル繖房花序ヲナス。苞ハ 1 個、小苞 2 個又ハナシ、花被ハナキカ又ハ 2-4 個若シ 2 個ナルトキハ 2 個共ニ苞ト對生ス、又 3 個ナルトキハ其中 1 個文ケ苞ト相對ス。又 4 個ナルトキハ其中 2 個ハ苞ト相對ス。雄蕊ハ 2 個以上不定ナリ。藥間ハ發達スルモノトセザルモノトアリ、雌花穗ハ若枝ノ先端ニ出ヅ、苞ハ 1 個、小苞ハ 2 個ニシテ少クモ基部ハ花被ノ筒部及ビ間接ニ子房ト相應合ス。花被ハナキカ又ハ 1 個苞ト相對シ腹面ニ位ス。又ハ 4 個ニシテ其中 2 個ハ苞ト

相對ス。心皮ハ2個花軸ニ對シ側位ニアルカ又ハ腹背ニアリ花柱ハ心皮ノ中肋上ニアルモノト其縁ニアルモノトアリ。花柱ハ2個分叉セヌカ又ハ2叉ス内面ハ柱頭状ナリ。子房ハ1室、卵子ハ1個基生直立唯1個ノ珠皮ヲ有ス。果實ハ核果又ハ堅果、核果ハ多肉ノ外果皮ヲ有シ裂開セサルカ又ハ乾燥シテ4裂スル外果皮ヲ有ス。内果皮ハ厚ク堅ク不完全ノ隔壁ヲ有ス。堅果ハ扁平翼アルモノトナキモノトアリ、不完全ナル隔壁ハ腹背兩面ヨリ出ヅルカ又ハ腹面ヨリ出ヅルカ又ハ側方ヨリ出ヅ、胚乳ハナシ、胚ハ摺曲スル子葉ト倒生上向ノ幼根ヲ有ス。

主トシテ溫帶地方ニ產シ6屬35種アリ其中2屬2種ハ朝鮮ニ產ス。

第1亞科 のぐるみ亞科

複葉莢花ハ若枝ノ先端ニ出ヅ、側枝ハ凡テ雄花、中央ノ枝ハ全部雌花穗ナルカ又ハ基部ノミ雌花穗トナル、雄花ハ2個ノ小苞ト8個ノ雄蕊トヲ有シ花被モ薬間モナシ、雌花ハ2個ノ相對スル小苞ト側出スル2個ノ心皮ト心皮ノ中肋ヨリ出ヅル花柱トヲ有ス。堅果ノ隔壁ハ心皮ノ癒着部ヨリ出ヅ。

次ノ1屬ヲ以テ代表サル。

第1屬 のぐるみ屬

小喬木、葉ハ1年生奇數羽狀複葉、互生托葉ナシ、小葉ハ鋸齒ト羽状脈トヲ有ス。莢花ハ若枝ノ先端ニ出デ直立シ複合ス。中央ノ枝ハ雌花ノミヨリ成ルカ又ハ基部ノミ雌花トナル。側方ノ雄花穗ハ花後脱落シ中央ノ枝ハ雌花部ト雄花部トノ分レ目ヨリトレテ雄花穗ノミ落ツ、花穗ニハ全長ニ亘リ苞アリ、花被ナシ、雄花ニハ8個(稀ニ6-7個ニ減數ス)ノ雄蕊アリ其中4-5個ノ花絲ハ苞ノ基部ト完全ニ癒着シ他ノ2-3個ノ花絲ハ花軸ト相癒合ス。薬ハ2室側方ニ開クカ又ハ内向、薬間ハ殆ンドナシ、雌花穗ハ相重ナレル苞ヲ有シ其各苞ニ1個ノ雌花アリ、各花ハ2個ノ相對シテ側出スル苞ヲ有ス、苞ハ背部ニ翼ヲ有シ子房ト殆ド全ク相癒合ス、花被ナシ然レドモ子房ノ背部ニ往々1個ノ突起ヲ有スルコトアリ此突起ハ退化セル花被ガ子房壁ト相癒合シタルモノト見ルヲ得ベシ、子房ハ1室、花柱ハ2個頂生内面ハ柱頭トナル、卵子ハ1個直立ス。果實ハ堅果扁平ニシテ小苞ヨリ變化セル堅キ2個ノ翼ヲ有ス、外果皮ハ堅ク内果皮ハ多孔ニシテ内部上方ニ唯1個ノ種子ヲ藏ス、果實ノ内室ハ腹背兩方ヨリ突出セル不完全ノ隔壁ヲ以テ基部ハ2室トナル、種皮ハ膜質子葉

ハ摺曲ス。

唯1種日本、朝鮮、臺灣、支那ニ分布ス。

1. のぐるみ 1名のぶのき

クルナム、クーナム(濟州島)、クルタイナム、クルピナム(慶南)

(第 XVI 圖)

高サ 4 m. (内地ニテハ 6-7 m.) ニ達スル小喬木トナリ分岐多シ、皮ハ灰色縦ニ不規則ニ割レ其狀くるみノ樹膚ニ似タリ、2年生ノ枝ハ暗褐色ニシテ小サキ皮目アリ。芽ハ卵形又ハ球形先端トガリ長サ 3-7 mm. 幅 2-6 mm. 幅廣キ背面ニ極微毛アル鱗片ニテ被ハル。若枝ハ褐毛アレドモ後無毛トナリ綠色長サ 5-7 mm. ノ細カキ皮目ヲ有ス。葉ハ奇數羽狀複葉、葉軸ハ始メ褐毛アレドモ後之ヲ失フ、葉柄ハ長サ 35-74 mm. 基ハ膨ミ始メ褐毛アレドモ後之ヲ失フ、羽片ハ 3-9 對相對シ最下部ノモノハ往々互生ス、側羽片ハ不等形披針形ヲナシ中肋ヨリモ上方(葉ノ先ニ近キ側)ハ下方(葉柄ニ向フ側)ヨリモ幅廣シ、長サ 34-108 mm. 幅 12-31 mm. 表面ハ無毛多少光澤ヲ有シ綠色、裏面ハ淡綠色始メ葉脈上ニ褐色ノ微毛アレドモ後無毛トナル、最頂羽片ヲ除ク外ハ基脚或ハ尖リ或ハ殆ンド丸ク歪形、側羽片ノ中肋ハ外屈ス。羽片ノ緣ハ 1 様ニ内曲セル單鋸齒又ハ複鋸齒ヲ有ス。花穗ハ若枝ノ先ニ複合シ最頂ノ枝ハ全部雌花又ハ基部ノミ雌花トナル、側出ノ花穗ハ凡テ雄花穗ナリ、花軸ニハ褐毛アリ、雄花穗ハ長サ 45-70 mm. 苞ハ廣卵形長サ約 1 mm. 内面ハ無毛外面ハ基部ニ微毛アリ先端ハ細ク尖リ外ニ反ル此尖レル部分ハ長サ 2,5-5 mm. 幅 0,6-1 mm. 背面ハ無毛内面ニ微毛アリ、雄蕊ハ 6-8 個其中 4-5 個ハ苞上ニアリ他ノモノハ花軸上ニアリ、花絲ハ長サ 0,2-0,3 mm. 顯微鏡下ニ照セバ微毛アリ、葯ハ廣卵形長サ 0,5 mm. 2 室、淡黃色、側方ニ開ク、雌花穗ハ長サ 10-25 mm. 幅 5-7 mm. 苞ハ卵形無毛先ハ硬ク長サ 2,5-3 mm. 許リノ突起トナリ、彎曲シテ傾上ス、小苞ハ 2 個最先端ヲ除クノ外ハ子房ト全ク相應合シ花軸ニ對シテ側位ニシテ互ニ相對ス、背面ニ翼アリ長サ 2 mm. 先端ハ尖リ子房ハ離ル、部分ハ内面ニ溝アリ、花柱ハ 2 個無柄内面ハ柱頭トナル但シ柱頭部ハ多少屈曲ス。果穗ハ永存性長サ 23-50 mm. 幅 22-30 mm. ノ苞ヲ有ス、苞ハ角質彈力ニ富ム、堅果ハ堅キ翼アル苞ト共ニ長サ 4-6 mm. 幅 3-6 mm. 子房壁ハ堅ク多孔質、種子ハ卵形種皮ハ褐色薄シ。

濟州島、全南、慶南、慶北、全北、忠南、忠北、京畿ノ各道ニ產ス。

(分布) 對馬、九州、四國、本島、支那(江西、江蘇、湖南、湖北、浙江、廣東、雲南)。

1種小枝ト葉トハ若キ時長キ褐毛密生シ花軸モ亦褐毛密生スルモノアリ、之ヲけのぐるみト謂フ。全南(突山島)、慶南(巨濟島)、慶北(江口)、京畿(水原)ニ產シ、朝鮮ノ特產ナリ。

Juglandaceæ LINDLEY, Nat. Syst. Bot. p. 180 (1836)—LOUDON, Arb. & Frut. Brit III p. 1420 (1838)—AGARDH, Theor. p. 218 (1858)—C. DE CANDOLLE, Prodr. XVI pt. 2 p. 134 (1864)—LAUHE, Deutsche Dendrol. p. 301 (1880)—ENGLER, Nat. Pflanzenfam. III Abt. 1 p. 19 (1887)—DIPPEL, Handb. Laubholzk. II p. 316 (1892)—KOEHNE, Deutsch. Dendrol. p. 68 (1893)—SCHNEIDER, Illus. Handb. I p. 74 (1904)—DODE in LECOMTE, Fl. Gén, Indo-Chine V p. 922 (1924).

Syn. *Amentaceæ* LINNÆUS, Phil. Bot. ed. 1 p. 28 (1751) pro parte—GISEKE, Praelect. p. 578 (1792), pro parte.

Terebinthi DURANDE, Not. Élém. Bot. p. 292 (1781), pro parte.

Terebintaceæ JUSSIEU, Gen. Pl. p. 368 (1789), pro parte—VENTENAT, Tab. Règ. Vég. III p. 438 (1799), pro parte—J. ST. HILAIRE, Exposit. II p. 248 (1805)—LAMARCK & DE CANDOLLE, Syn. Fl. Gall. p. 364 (1806), pro parte—REICHENBACH, Fl. Germ. Excurs. III p. 488 (1832), pro parte.

Juglandeæ A. P. DE CANDOLLE, Théor. p. 215 (1813).

Cupuliferæ DUMORTIER, Comment. Bot. p. 53 (1822), pro parte.

Amantaceæ LINK, Enum. Pl. Hort. Berol. II p. 397 (1822), pro parte.

Juglandeæ A. RICHARD apud KUNTH in Ann. Sci. Nat. II p. 343 (1824)—BARTLING, ORD. Nat. Pl. p. 397 (1830)—LINDLEY, Introd. Bot. p. 101 (1830)—SPACH, Hist. Vég. II p. 163 (1834)—ENDLICH-ER, Gen. Pl. p. 1125 (1840)—BENTHAM & HOOKER, Gen. Pl. III p. 397 (1880).

Juglandineæ DUMORTIER, Analyse p. 11 & 12 (1829).

Terebinthaceæ Trib. I. *Juglandeæ* MEISSNER, Pl. Vasc. Gen. I p. 74 (1836); II p. 54 (1843).

Arboreæ vel arbores monoicæ. Folia alterna annua imparipinnata, foliolis serratis vel integris penninerviis. Amenta nunc maseula ex axillis

foliorum ammotinorum evoluta pendula sessilia vel pedunculata solitaria vel racemosa, nunc in parte basale rami hornotini evoluta corymbosa pendula, nunc in apice rami hornotini lateralia erecta et corymbosa. Flos masculus, bractea 1, bracteolæ O vel 2 sublaterales, tepala O vel 2-4, si 2 omnia cum bractea opposita, si 3 unica cum bractea opposita, si 4 quorum 2 bractea opposita. Stamina 2-∞, connectivo evoluto vel haud evoluto. Amentum fæmineum in apice rami hornotini terminale. Bractea 1. Bracteolæ 2 saltem basi perigonii tubo vel ovario adnatæ. Tepalum O, vel 1, cum bractea oppositum ventrale, vel 4 quorum 2 exteriora dorsiventralia cum bracteola opposita. Carpella 2, nunc lateralia cum stylis carinatis vel marginalibus, nunc dorsiventralia cum stylis carinatis vel marginalibus. Styli 2 indivisi vel bifidi intus stigmatosi. Ovarium uniloculare. Ovulum solitarium erectum basifixum cum integumento unico. Fructus drupaceus vel nuceus. Drupa exocarpio carnoso indehiscente vel exsiccatu 4-valvato, endocarpio crasso duro imperfecto-septato. Nux compressa subalata vel exalata cum septis imperfectis dorsiventralibus vel ventralibus vel lateralibus. Albumen nullum. Embryo cum cotyledonibus plicatis, radicula supera.

Genera 6, species 35 maxime in regionibus temperatis indigenæ, quarum genera 2 species 2 in Korea spontanea.

Juglandaceæ Trib. 1. **Platycaryeæ** NAKAI, nov. trib.

Syn. *Platycaryaceæ* NAKAI, Angiospermæ in Iwanami, Lectures on Biology, Botany, p. 51 (1931), nom. nud.

Amenta decomposita in apice rami hornotini terminalia. Flos masculus bractea et perigonio nullo, staminibus 8, connectivo haud evoluto. Flos fæmineus bracteolis 2 oppositis. Carpella 2 lateralia, stylis carinatis. Septa nucis ex commussuris carpellorum evoluta.

Genus unicum *Platycarya* hoc pertinet.

Gn. 1. **Platycarya** SIEBOLD & ZUCCARINI in Abh. der II Classe der Academ. d. Wissenschaft. III Band. Abth. 3 p. 741 Tab. V fig. 1 k₁-k₈ (1843)-ENDLICHER, Suppl. Gen. Pl. III p. 99 no. 5992/1 (1843).-C. DE CANDOLLE in Ann. Sci. Nat. 4 sér. XVIII p. 36 (1862)-BENTHAM & HOOKER, Gen. Pl. III p. 400 (1880)-BAILLON, Hist. Pl. XI. p. 406 (1892)-ENGLER in ENGLER & PRANTL, Nat. Pflanzenfam. III Abt. 1 p. 23 (1887)-DIPPEL,

Handb. Laubholzk. II p. 342 (1892) -KOEINE, Deutsch. Dendrol. p. 69 (1893)-SCHNEIDER, Illus. Handb. Laubholzk. I p. 75 (1904).

Syn. *Fortunaea* LINDLEY in Journ. Hort. Soc. London I p. 150 (1846).

Arborea. Folia annua imparipinnata alterna exstipillata, foliola serrata penninervia. Amenta erecta corymbosa terminalia, centrale foemineum sed si bisexualis basi foemineum. Amenta mascula post anthesin e basi decidua ita centrale bisexualis pars mascula tantum ab apicem partis foeminei sejuncta, per totam longitudinem bracteata, perigonium nullum, stamina 8 (6-7), quorum 4-5 filamentis fere totam longitudinem cum basi bracteae conniventibus et 2-3 filamentis fere cum axi amenti conniventibus, antherae biloculares laterali dehiscentes vel subintrorsae, connectivum haud evolutum. Amenta foeminea per totam longitudinem imbricatim bracteata, in quaque bractea flos unicus, flos cum bracteolis binis laterali bus oppositis dorso alatis fere cum ovario conniventibus, tepala nulla sed interdum ovarium dorso cum prominulo unico qui rudimentum segmenti perigonii esse videtur; ovarium uniloculare; styli bini terminales intus stigmatosi; ovulum solitarium erectum. Nux compressa cum alis binis ex bracteolis transformantibus duris, parte centrale dura et endocarpium spongiosum ex ovario transformans in quo semen unicum in parte superiore positum loculo cum septis imperfectis dorsi-ventrali evolutis sub-biloculare. Semen cum testa membranacea. Cotyledones plicati.

Species unica in Japonia, Korea, Formosa et China indigena.

Platycarya strobilacea SIEBOLD & ZUCCARINI

(*Tabula nostra XVI*)

Platycarya strobilacea SIEBOLD & ZUCCARINI in Abh. II Classe d. Akad. Wiss. Muenchen III Abt. 3 p. 742 tab. V fig. 1, k₁-k₈ (1843), ut *Platycarya*; in Abh. II Classe d. Akad. Wiss. Muenchen IV Abt. 2 p. 141 (1845)-CH. LEMAIRE in VAN HOUTTE, Fl. des Serres IV Misc. p. 370 b. (1848).-C. DE CANDOLLE in Ann. Sci. Nat. 4 sér. XVIII p. 37 Pl. I fig. 6 II fig. 16-17, III fig. 33-37 (1862); Prodr. XVI pt. 2 p. 145 (1864)-MIQUEL in SIEBOLD & ZUCCARINI, Fl. Jap. II p. 87 t. 149 (1870); in Ann. Mus. Bot. Lugd. Bat. III p. 103 (1867); Prol. Fl. Jap. II p. 267 (1867)-MAXIMOWICZ in Bull. Acad. Sci. St. Petersb. 3 sér. XVIII p. 64 (1873), pro parte; in

Méth. Biol. VIII p. 640 (1873), pro parte—FRANCHET & SAVATIER, Enum. Pl. Jap. I p. 454 (1875).—FRANCHET in Nouv. Arch. Mus. Paris sér. 2 VII p. 92 (1884); Pl. David. I p. 282 (1884)—ANDRÉ in Rev. Hort. LX p. 88 fig. 18–19 (1888)—KOEHNE, Deut. Dendrol. p. 70 (1893)—SKAN in Journ. Linn. Soc. XXVI p. 495 (1899), pro parte—PRITZEL in ENGLER, Bot. Jahrb. XXIX (DIELS, Fl. Centralchina) p. 273 (1900)—BEISSNER, SCHELLE, ZABEL, Handb. Laubholzbenn. p. 8 (1903)—SCHNEIDER, Illus. Handb. Laubholzk. I p. 75 (1904)—PAMPANINI in Nouv. Giorn. Bot. Ital. n. ser. XVII p. 249 (1910)—NAKAI in Journ. Coll. Sci. XXXI (Fl. Kor. II) p. 200 (1911), pro parte—DUNN & TUTCHER in Bull. Misc. Inform. Kew add. ser. X p. 251 (1912)—NAKAI, Veget. Isl. Quelpaert p. 36 no. 481 (1914)—BEAN, Trees & Shrubs II p. 204 (1914)—NAKAI, Veget. Chirisan Mts p. 28 no. 119 (1915)—REHDER & WILSON in SARGENT, Pl. Wils. III pt. 1 p. 180 (1916)—MORI, Enum. Corean Pl. p. 113 (1922), pro parte—REHDER in Journ. Arnold Arb. IV p. 146 (1923)—MAKINO & NEMOTO, Fl. Jap. p. 1117 (1925), excl. var.—REHDER, Manual Cult. Trees p. 125 (1927)—MAKINO & NEMOTO, Fl. Jap. ed. 2 p. 178 (1931), excl. var.

Syn. *Fortunea chinensis* LINDLEY in Journ. Hort. Soc. London I p. 150 (1846)—NAUDIN in Rev. Hort. sér. 2, V p. 282 (1846)—WALPERS, Ann. I pt. 1 p. 202 (1848)

Platycarya strobulacea DIPPEL, Handb. Laubholzk. II p. 342 fig. 157 (1892).

Arborea usque 4m. alta (in Japonia sæpe 5–6m. attingit) ramosa; cortex cinereus longitudine irregulare fissus Juglandoides. Ramus biennis atro-fuscus minute lenticellatus. Gemmæ ovoideæ vel subglobosæ acutæ 3–7 mm. longæ 2–6 mm. latæ squamis dilatatis dorso minutissime ciliolatis. Rami hornotini juventute fusco-pilosæ demum glabrescentes virides lenticellis angustis 5–7 mm. longis notati. Folia imparipinnata, axis primo fusco-pilosella demum glabrescentes; petioli 35–74 mm. longi basi tumidi primo fusco-pubescentes vel pilosi demum glabrescentes; pinnae 3–9 jugæ oppositæ infimæ interdum alternæ laterales inæqualiter lanceolatae sessiles, parte superiore quam inferior latiore 34–108 mm. longæ 12–31 mm. latæ, supra glabrae luciduscule virides infra pallidiores primo supra venas fusco-pilosellæ demum fere glabrae basi præter terminalem acutum vel obtusi-

usculum obliquae, costae pinnarum lateralium saepe retrorso-arcuatae, margine aequaliter vel subduplicato-incurvatoque serrulatae. Spicæ in apice ramorum hornotinorum terminales corymbosæ, terminales fæmineæ vel basi fæmineæ, laterales omnes masculæ, axis fuscescens-hispidulo-pubes-cess. Spicæ masculæ 45–70 mm. longæ; bracteæ late ovatæ circ. 1 mm. longæ intus glabrae dorso basi pilosæ in acumine recurva 2,5–5 mm. longa 0,6–1 mm. lata subito contracta. Stamina 6–8, quorum 4–5 supra bractea posita, cetera supra axi spicæ posita; filamenta 0,2–0,3 mm. longa sub len-te pilosella; antheræ late ovatæ 0,5 mm. longæ biloculares laterali-dehisc-entes flavidæ. Spica fæminea vel pars fæminea spicæ bisexualis 10–25 m m. longæ 5–7 mm. latæ; bracteæ ovatæ glabrae apice rigide acuminatae 2,5–3 mm. longæ arcuato-ascendentes; bracteolæ binæ præter apicem ovarium adhærentes laterali-positæ oppositæ dorso alatae 2 mm. longæ apice acutæ parte libera intus sulcatae; styli 2 sessiles intus stigmatosi sed pars stig-mata paulo tortuoso-introrsa. Spicæ fructiferæ maturæ cum bracteis per-sistentibus 23–50 mm. longæ 22–30 mm. latæ; bracteæ rigidæ elasticæ. Nux cum bracteolis persistentibus crustaceis alato-productis 4–6 mm. longa 3–6 mm. lata, ovario indurato spongioso. Semen ovatum testa fusca mem-branacea.

Nom. Jap. *Nogurumi*, *Nobunoki*.

Nom. Kor. *Kül-nam*, *Kunam* (Quelpært). *Kurutai-nam*, *Kuripi-nam* (Keinan).

Hab.

Quelpært: in silvis Piento (E. TAQUET no. 3113); in torrentis Tolsoumi (E. TAQUET no. 4369); Piento (E. TAQUET no. 1192); in dumosis basi Hallasan (U. FAURIE no. 1542); in declivitate australe pede montis Hallasan (T. NAKAI no. 4891); sine loco speciali (T. ISHIDÖYA no. 206).

Zennan: Muan Seikeimen (T. NAKAI no. 9376); monte Taitonzan (T. NAKAI no. 9373, 9374); insula Chito (T. NAKAI no. 9375); insula Daikokuzanto (T. ISHIDÖYA & TEI no. 3786); Mte Chiisan (T. NAKAI no. 54); Mte Gesshutsuzan (TEI); Mte Mutôsan (S. FUKUBARA); Mte Ha-kuyôzan (S. Tate); Kôshin Mantokusan (T. SAWADA); Mte Taitonzan (S. FUKUBARA); Insula Hokitsutô (T. NAKAI); insula Baikatô (T. Mi-wa).

Keinan : Fusan Ryūtōzan (T. NAKAI); insula Kyosaitō (T. MORINO no. 205); Mte Hakkōzan (T. SAWADA); Mte Seishūzan (T. SAWADA); Mte Kaya-san (T. ISHIDOYA no. 5099).

Keihoku : Taikyū (T. NAKAI no. 7828).

Chūnan : Mte Keiryūzan (T. KONDŌ).

Chūhoku : Onjyō (T. NAKAI no. 7827).

Keiki : Jinsen (T. UCHIYAMA).

Distr. Hondo, Shikoku, Kiusiu, Tsusima, Iki, Oki, China (Kiangsu, Kiangsi, Honan, Hupeh, Chekiang, Yunnan, Kwangtung).

Platycarya strobilacea var. **coreana** MIQUEL in Ann. Mus. Bot. Lugd.

Bat. III p. 103 (1867); Prol. Fl. Jap. p. 267 (1867).

Syn. *Platycarya strobilacea* (non SIEBOLD & ZUCCARINI) MAXIMOWICZ in Bull. Acad. Sci. St. Pétersb. 3 sér. XVIII, p. 64 (1873), pro parte; in Mél. Biol. VIII p. 640 (1873), pro parte—SKAN in Journ. Linn. Soc. XXVI p. 495 (1899), pro parte—PALIBIN in Acta Hort. Petrop. XVIII p. 47 (1900), pro parte—NAKAI in Journ. Coll. Sci. Tokyo XXXI (Fl. Kor. II) p. 200 (1911), pro parte—MORI, Enum. Cor. Pl. p. 113 (1922), pro parte.

Rami et folia juventute fusco-barbata. Axis inflorescentiae etiam quam typus densius pubescens.

Nom. Jap. *Kc-Nogurumi*.

Hab.

in Archipelago Koreano (R. OLDHAM no. 653, typus in Herb. Lugd. Bat.).

Zennan : Insula Totsuzantō (T. NAKAI no. 10912).

Keinan : Gakenri insulae Kyosaitō (T. NAKAI no. 10911).

Keihoku : Kōkō (T. NAKAI no. 4695).

Keiki : Mt. Kasan, Suigen (T. NAKAI no. 4771).

Planta endemica.

KANEHIRA and SASAKI reduced var. *Kawakamii* HAYATA to the type (Journal of the Society of Tropical Agriculture IV no. 3, p. 313, Oct. 1932). but so far as HAYATA's specimens concern variety *Kawakamii* is distinct from the type by having always narrower leaflets and shorter bracts in the male catkin.

第 II 亞科 くるみ亞科

雄花穂ハ前年ノ枝ノ上部ノ葉腋ニ生ジ下垂ス、雌花穂ハ若枝ノ先ニ出デ直立ス雄花ニハ花ノ基部ト全ク相癒合スル1個ノ苞トホボ左右ニ生スル2個ノ小苞ト3個ノ花被トヲ有ス、花被ノ中1個ハ苞ト相對シ小苞ト共ニ偽花被ヲ作ス。雄蕊ハ不定數ニシテ薬間ハヨク發達ス、雌蕊テ。雌花ハ1苞ニ1個生ジ2個ノ小苞ハ左右ニ相對シテ出デ筒狀ニ相寄ス。花被ハ4個其中外方ノ2個ハ苞ト相對ス。4個共相寄リテ筒狀ニ癒着シ子房トモ相癒合ス。心皮ハ2個苞ト相對ス、花柱ハ心皮ノ中肋部ヨリ生ズル故同ジク苞ト相對ス、核ノ隔壁ハ心皮ノ腹面中央線ヨリ隆起ス。

唯1屬くるみ屬ヲ以テ代表ス。

第 II 屬 くるみ(胡桃) 屬

喬木ニシテ雌雄異花同株、葉ハ1年生奇數羽狀複葉、小葉ハ鋸齒アルモノト全緣ナルモノトアリ羽狀脈ヲ有ス。雄花穂ハ前年ノ枝ノ葉腋ヨリ出デ下垂シ全長ニ苞アリ。此各苞ニ各1個ノ雄花ヲ有ス、小苞2個側立、花被ハ3個其中1個ハ背側ニ出デ苞ト相對ス。雄蕊ハ多數束狀、薬ハ2室縦裂開シ薬間ハ抽出ス。雌花穂ハ若枝ノ先ニ出デ1-10個ノ花ヲ附ク、各花ノ基ニ各1個ノ苞アリ。小苞ハ2個筒狀ニ相癒合ス。花被ハ4個其中2個ハ腹背ニ位シ外側ニアリ側立内側ニアル他ノ2個ト共ニ筒狀ニ相癒合シ内面ハ子房壁ト相癒着ス、心皮ハ2個、花柱ハ2個心皮ノ中肋先端ニ位ス。子房ハ1室、卵子ハ1個直立ス、果實ハ核果、外果皮ハ内花被ト子房壁ノ外部トヨリ成リ多肉ニシテ裂開セズ、内果皮ハ子房ノ内壁ノ發達セルモノニシテ堅ク不規則ノ溝アリ、内面ハ心皮ノ中央基部ヨリ隆起セル不完全ノ隔壁ヲ有ス、胚ハ大型、子葉ハ厚ク折タヽミ幼根ハ上向。

學者ニ依リ種類ニ就テノ意見ヲ異ニシ未ダ眞ニ幾種アルヤヲ確定シ難キモ其數ハ少クモ10種以上多クモ45種ヲ出デズ、皆北半球ノ温帶地方ニ產ス、朝鮮ニハ唯1種自生シ1種ハ早ク支那ヨリ輸入シテ多ク栽培ス。

第 I 節 てうちぐるみ節

小葉ハ3-7個、老成ノ枝ニ出ヅルモノハ全緣ニシテ無毛又ハ微毛アリ、薬ニ毛ナシ、雌花穂ニハ僅カニ1-3個ノ花ヲ附ク。

てうちぐるみ（朝鮮名ホトナム）之ニ屬ス、モト支那ノ原產ニシテ朝鮮ニアルハ皆栽植セルモノナリ。

第 II 節 おにぐるみ節

小葉ハ 7-13 個、常ニ鋸齒ト密毛アリ、薬ニ毛アリ、雌花穗ニハ 5-10 個ノ花ヲ附ク、まんしうぐるみ之ニ屬ス。

2. まんしうぐるみ

カライナム（平北）

(第 XVII, XVIII 圖)

喬木、枝ハ上方ニテ開ク、樹層ハ灰色縦ニ裂隙アリ、萌枝ノ先端部ハ短絨毛アルカ又ハ無毛葉痕ノ上ニ突出セル絨毛ノ生ズル所アリ、葉ハ奇數羽状複葉ニテ 7-11 個ノ羽片ヲ有シ葉柄ト葉軸トニハ短カキ微毛又ハ絨毛アリ、葉柄ノ長サハ 9-14 cm. 羽片ハ長サ 6-17 cm. 幅 2-7 cm. 橢圓形又ハ長橢圓形先端ハ漸次又ハ急ニ尖リ基脚ハ頂羽片ニテハ尖レモ側羽片ニテハ斜ニ歪心臟形又ハ截形、羽狀脈アリ表面ハ中肋ト側主脈ノ基部ニ微毛アル外ハ皆無毛綠色平滑ナリ側主脈ハ兩側ニ各々 16-25 本アリ、葉裏ハ淡綠色微毛アルモノト絨毛アルモノトアリ緣ニハ一様ノ鋸齒アリ、花枝ハ絨毛ニテ被ハレ葉ハ相接シテツク、葉ハ長サ 50-88mm ノ絨毛アル葉柄ヲ有ス、羽片ハ 5-7 對奇數羽状ナリ、葉軸ニハ微毛又ハ絨毛アリ、羽片ハ長橢圓形又ハ帶披針長橢圓形又ハ帶卵橢圓形、又ハ橢圓形、最頂ノ羽片ハ最大ナルカ又ハ最小ニシテ之レハ個體又ハ枝ニ依リテ異ナル凡テノ羽片ニ鋸齒アリ側羽片ノ先端ハ漸尖又ハ急尖基脚ハ截形又ハ弱心臟形長サ 45-196 mm. 幅 22-65 mm. 表面ハ中肋ヲ除クノ外ハ無毛綠色平タシ裏面ハ淡綠色短カキ絨毛アリ、雄花穗ハ前年ノ枝ノ葉腋ヨリ 1-2 本宛腋生シ長サ 9-22 cm. 花軸ニハ微毛アリ、苞ハ水平ニ展開シ先端丸ク小苞ハ 2 個苞ノ先ノ側方ニ出デ幅廣ク下向綠色ナリ、花被ハ 3 個 1 個ハ苞ト相重ナリ下向他ノ 2 個ハ苞ノ基部ノ側方ニ出ヅ、雄蕊ハ 12 (13-14) 個殆ンド無花絲花盤上又ハ花被ノ上ニ出ヅ、薬ハ長サ 1 mm. 2 室、薬間ハ抽出シ或ハ尖リ或ハ凹入シ黑色微毛アリ、雌花穗ハ若枝ノ先ニ出デ 4-9 個ノ花ヲ附ク花軸ハ絨毛アリ、花ニハ各 1 個ノ長キ毛アル狹キ苞アリ、小苞ハ筒狀ニ相應合シ先端ハ 2-4 歯アリ、長サ 5-6 mm. 内面ハ子房ト相應合シ外面ニハ絨毛アリテ特ニ基部ニハ腺狀毛アリ、花被ハ 4 個披針形又ハ狹披針形綠色微毛アリ基脚ハ凡テ子房ニ應着ス、花柱ハ

2 個紅色背面ニハ短カキ微毛アリ、柱頭ハ披針形先端ハ2又ス、核果ハ卵形又ハ橢圓形又ハ球形綠色腺狀ノ絨毛アリ長サ 35-75 mm. 幅 30-46 mm. 核ハ球形、卵形又ハ橢圓形又ハ長橢圓形長サ 27-47 mm. 表面ニハ兩面共ニ 3 個ノ稜線アリテ表面ハ不規則ニ凹ム。

咸北、咸南、平北、平南、黃海、江原、京畿ノ山地森林中ニ生ズ。

(分布) 滿洲、烏蘇利、黑龍江省、支那(河北、河南)。

Juglandaceæ Trib. 1. Juglandæ NAKAI.

Arbor monoica. Folia pinnata annua. Amenta mascula in axillis foliorum annotinorum axillaria pendula. Flos masculus cum bractea 1, bracteolis 2, tepalis 3, staminibus 10-14. Amenta fæminea in apice rami hornotini terminalia erecta. Flos fæmineus cum bractea 1, bracteolis 2-4 tubuloso-connatis, tepalis 4 ovarium adnatis. Carpella 2 dorsiventralia. Styli 2 carinati. Stigmata indivisa vel bifida.

Genus unicum *Juglans* huc pertinet.

Gn. 1. **Juglans** [BAUHINUS, Pinax Theatri Bot. p. 416 (1623)-RAIUS, Hist. II p. 1376 (1688)-LINNÆUS, Gen. Pl. ed. 1 p. 291 no. 727 (1737)]-LINNÆUS, Sp. Pl. ed. 1 p. 997 (1753); Gen. Pl. ed. 5p. 431 no. 950 (1754)-JUSSIEU, Gen. Pl. p. 375 (1789)-NECKER, Elem. Bot. III p. 253 (1790)-GMELIN, Syst. Nat. II p. 742 & 755 (1791)-GÆRTNER, Fruct. & Sem. Pl. II p. 50 t. 89 fig. 1 (1791)-GISEKE, Prælect. p. 583 (1792)-MOENCH, Method. I p. 696 (1794)-DESFONTAINES, Fl. Atl. II. p. 351 (1798)-VENTENAT, Tab. Règn. Vég. III p. 457 (1799)-J. ST. HILAIRE, Exposit. II p. 260 (1805)-LAMARCK & DE CANDOLLE, Syn. Fl. Gall. p. 365 (1806)-WILDENOW, Sp. Pl. IV pt. 1 p. 455 (1805)-PERSOON, Syn. Pl. II pt. 2 p. 566 (1807)-KUNTH in Ann. Sci. Nat. II p. 344 (1824)-REICHENBACH, Fl. Germ. Excur. III p. 489 (1832)-NEES, Gen. Pl. Fl. Germ. III no. 237 (1835)-SPACH, Hist. Vég. II p. 165 (1834)-LOUDON, Arb. & Frutic. Brit. III p. 1421 (1838)-ENDLICHER, Gen. Pl. II p. 1126 no. 5890 (1840)-PETZOLD & KIRCHNER, Arb. Musc. p. 334 (1864)-C. DE CANDOLLE, Prodr. XVI pt. 2 p. 135 (1864)-BENTHAM & HOOKER, Gen. Pl. III p. 398 (1880)-LAUHE, Deutsch. Dendrol. p. 302 (1880)-BAILLON, Hist. XI p. 405 (1892)-ENGLER in ENGLER & PRANTL, Nat. Pflanzenfam. III pt. 1 p. 24 (1887)-DIPPEL, Handb. II p. 317 (1892)-KOEHNE, Deutsch. Dendrol. p. 70 (1893)-SCHNEIDER, Illus.

Handb. I p. 84 (1904).

Syn. *Nux regia* [BRUNFELS, Herb. III p. 225 (1536)].

Nux iviglans [MATTHIOLI, Comm. p. 146 cum Icon. (1554)—LOBEL, Stirp. Advers. Nov. p. 416 (1570)—DALECHAMPS, Hist. Gen. Pl. I p. 320 cum fig. (1587)].

Nux [DODONÆUS, Nieuw. Herb. p. 731 (1578) cum fig.; Pempt. p. 803 (1588) cum fig.—PARKINSON, Theater Pl. p. 1413 cum fig. (1640)—TOURNEFORT, Institut. Rei Herb. p. 581 t. 346 (1700)—BOERHAAVE, Ind. Pl. II p. 175 (1720)]—DUHAMEL, Traité Arb. & Arbust. II p. 49 (1755)—Hill, Brit. Herb. p. 508 cum fig. (1756)—ADANSON, Fam. Pl. II p. 497 (1763).

Juglans (L.) NUTTALL apud MEISSNER, Pl. Vasc. Gen. I p. 74 (1836).

Arbores monoeicæ. Folia annua imparipinnata, foliolis serratis vel integris penninerviis. Amenta mascula ex axillis foliorum annotinorum evoluta sessilia pendula per totam longitudinem bracteata. Flos supra bractea unica; bracteolæ 2 laterales; tepala 3 quorum unicum dorsale cum bractea oppositum. Stamina numerosa fasciculata, antheris bilocularibus, longitudine dehiscentibus connectivo producto. Amenta fœminea in apice rami hornotini terminalia. Flos cum bractea 1, bracteolis 2 tubuloso-connatis, tepalis 4 quorum 2 dorsiventrales exteriora omnia basi quam bracteolæ altius connata et ovario adhærentibus. Carpella 2, stylis carinatis 2. Ovarium uniloculare. Ovulum solitarium orthotropum. Fructus drupaceus, exocarpium cum bracteolis et parte exteriore loculi ovarii constitutum carnosum indehiscens, endocarpium ex parte inferiore loculi ovarii evolutum durum irregulare furcatum intus cum septis ex lineis medianis carpellorum basale evolutum. Embryo magnus, cotyledonibus crassis plicatis, radicula supera.

Numero specierum incerta sed inter 10–45 in regionibus temperatis boreali-hemisphaericæ incolæ. In Korea species 1 spontanea et unica culta.

Juglans Sect. 1. **Dioscaryon** DODE in Bull. Soc. Dendrol. France No. 2, p. 72 (1906).

Foliola 3–7 ramorum adulorum integra glabra vel pilosella. Antheræ glabræ. Amenta fœminea cum floribus 1–3.

Huc pertinet *Juglans sinensis* DODE, quæ olim ex China introducta

et in parte meridionale abunde culta.

Juglans Sect. 2. **Cardiocaryon** DODE, l. c. no. 11 p. 22 (1909).

Foliola 7–13 semper serrulata subtus pubescentia. Antheræ pubescentes. Amenta fæminea cum floribus vulgo 5–10.

Juglans mandshurica MAXIMOWICZ

(*Tabula nostra XVII, XVIII*)

Juglans mandshurica MAXIMOWICZ in Bull. Phys.-Math. Acad. Pétersb. XV p. 127 (1856); in Mél. Biol. II p. 417 (1856); in Mém. prés. Acad. Imp. Sci. St. Pétersb. div. sav. IX p. 76 no. 181 (1859); in Bull. Acad. Sci. St. Pétersb. XVIII p. 57 cum fig. fruct. (1873); in Mél. Biol. VIII p. 630 cum fig. fruct. (1873)–HANCE in TRIMEN, Journ. Bot. XIII p. 135 (1875)–FRANCHET in Nouv. Arch. Mus. Paris sér. 2, VII p. 92 (1884); Pl. Dav. I p. 282 (1884)–RICHARDS in Gard. Chron. 3 ser. IV p. 384 fig. 53 (1888)–HERDER in Acta Hort. Petrop. XII (Pl. Radd. V) p. 48 (1892). KORSCHINSKY in Acta Hort. Petrop. XII (Pl. Amur.) p. 321 (1892)–SKAN in Journ. Linn. Soc. XXVI p. 493 (1899), pro parte–REHDER in Bailey, Cyclop. Americ. Hort. II p. 846 fig. 1195 (1901)–KOMAROV in Acta Hort. Petrop. XXII p. 9 (1903); Fl. Mansh. II p. 9. (1904)–NAKAI in Journ. Coll. Sci. Tokyo XXXI (Fl. Kor. II) p. 200 (1911); in Tokyo Bot. Mag. XXVI p. 43 (1912)–SIUZEV in Trav. Mus. Bot. Acad. Imp. Sci. St. Pétersb. IX p. 86 (1912)–MAYR, Fremd. Wald-u. Parkbäume p. 477 (1906)–REHDER in BAILEY, Stand. Cyclop. Hort. III p. 1723 fig. 2013 (1915)–NAKAI, Veget. Diamond Mts p. 169 (1918)–MORI, Enum. Corean Pl. p. 113 (1922)–REHDER, Manual Cult. Trees p. 129 (1927).

Syn. *Juglans regia* var. *octogona* CARRIÈRE in Rev. Hort. XXXIII, p. 429 (1861).

Juglans stenocarpa MAXIMOWICZ in Mém. prés. Acad. Imp. Sci. St. Pétersb. div. sav. IX (Prim. Fl. Amur.) p. 78 (1859); in Bull. Acad. Sci. St. Pétersb. XVIII p. 58 (1873); in Mél. Biol. VIII p. 632 cum fig. (1873)–HERDER in Acta Hort. Petrop. XII p. 48 (1892)–REHDER, Manual in nota sub *J. mandshurica* (1927).

Juglans mandshurica MAXIMOWICZ apud C. DE CANDOLLE, Prodr. XVI pt. 2 p. 138 (1864).

Juglans mandschurica MAXIMOWICZ apud LAUHE, Deutsch. Dendrol. p. 305 (1880)—DIPPEL, Handb. Laubholzk. II p. 321 (1892)—KOEHNE, Deutsche Dendrol. p. 76 fig. 24 DD' (1893)—BEISSNER, SCHELLE, ZABEL, Handb. Laubholzbenn. p. 12 (1903).

Arbor ramis apice saepe late expansis. Cortex trunci cinereus longitudo fissus. Turio apice subvelutina—subglabra supra cicatricem petioli prominente-velutina—pilosa—glabra; folia 7–11 jugo imparipinnata, petioli et axis adpresse pilosella—velutina, petioli 9–14 cm. longi, foliola elliptica vel oblonga apice acuminata vel mucronata basi in terminale acuminata in lateralia obliqua inæqualia subcordata vel truncata 6–17 cm. longa 2–7 cm. lata, penninervia supra præter costam et bases venarum primariarum adpresse pilosa—velutina margine æqualiter serrulata. Rami floriferi hornotini velutini cum foliis confertis. Folia cum petiolis 50–88 mm. longis pubescentibus vel pilosis basi tumidis, 5–7 jugo-imparipinnata, axis pilosa vel velutina; foliola oblonga vel lanceolato-oblonga vel ovato-elliptica vel elliptica vel inferiora saepe ovato-elliptica, terminalia maxima vel minora utrinque acuminata, omnia serrulata, lateralia apice acuminata—mucronata basi obliqua, truncata vel subcordata, 45–196 mm. longa 22–65 mm. lata supra præter costam glabra viridia plana infra pallida vel adpresse velutina. Amenta mascula in axillis foliorum annotinorum axillaria 1–2 pendula 9–22 cm. longa, axis pilosella, bracteæ horizontali patentes apice muticæ, bracteolæ 2 circa apicem laterali deflexa 2 lateralia circa basin bracteæ posita; stamina 12 (13–14) subsessilia supra torum vel supra basis tepalorum posita, antheræ 1 mm. longæ biloculares, connectivum productum acutum vel emarginatum nigrum pilosellum. Amenta fæminea in apice innovationum posita 4–9 flora; axis velutina; in quoque flore bractea 1 angusta villosa; bracteolæ tubuloso-connatae et ovarium adnatae apice 2–4 dentatae 5–6 mm. longæ velutinæ præcipue basi glanduloso-velutinæ; tepala 4 lanceolata vel linear-lanceolata viridia pilosa basi toto ovario sed quam bracteolæ altius connata; styli 2 rubri dorso adpresse piloselli; stigma lanceolatum apice bifidum. Drupa ovoidea vel ellipsoidea vel sphærica viridis glanduloso-velutina 35–75 mm. longa 30–46 mm. lata. Nux rotundata vel ovata vel oblonga 27–47 mm. longa, facie tricostata irregulariter impressa.

Nom. Jap. *Manshū-gurumi*.

Nom. Kor. *Karai-nam*.

Hab. in

Kanhoku : Hojyō-dō (T. NAKAI no. 6928); inter Kōkōki & Yūki (T. NAKAI no. 1859); Mt. Mosanrei (T. NAKAI); Funei Fukio (TEI); Shuo-tsu (T. NAKAI no. 6879); Mt. Shayusan (TEI no. 938); Mt. Sōzan (TEI no. 666); Mt. Hichihōzan (T. KONDŌ no. 361).

Kannan : Mt. Shūaizan (S. FUKUBARA); Mt. Shisuzan (TEI).

Heihoku : secus vias Hekidan (T. NAKAI no. 1860); Mt. Hiraihō 900 m. (T. NAKAI no. 1861); Mt. Sūsekizan (S. FUKUBARA no. 1097); Shōdōjō Shinsōmen (T. SAWADA); Unzan Hokuchinmen (S. FUKUBARA); Kokuzan Taikyokumen (T. KONDO no. 42); Mt. Hakuhekizan (T. ISHIDOYA); Kōshō Nansha (S. Gotō).

Heinan : inter Shasō & Onsō (T. ISHIDOYA no. 4365).

Kōkai : Zuikō (T. NAKAI no. 2452); Kokuzan Katomen (Y. TAKAICHI); Mt. Matsuakusan (T. MURAMATSU).

Keiki : Mt. Kasan (T. NAKAI no. 4764); Mt. Kagakusan (T. SAWADA).

Kōgen : Mt. Setsugakusan (T. ISHIDOYA no. 6241); Mt. Godaisan (T. ISHIDOYA no. 6519); Rankoku (T. ISHIDOYA no. 1902, 1903); Kenfutsurō (T. NAKAI no. 14046).

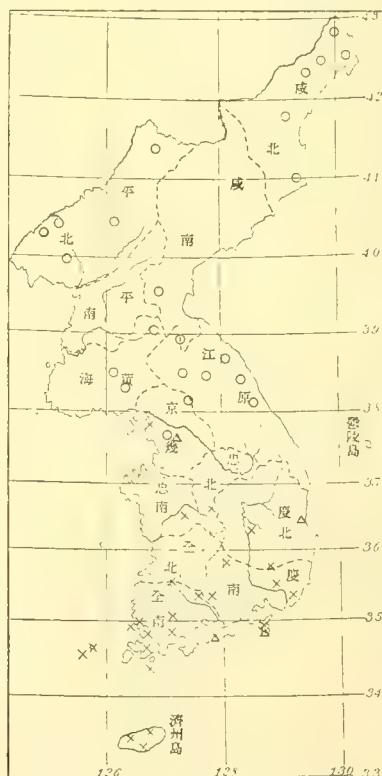
Distr. Manshuria, Ussuri, Amur, Jehol, China (Chili, Honan)
S. KORSCHINSKY (l. c.), KOMAROV (l. c.) and SKVORTZOV (l. c.) took *Juglans stenocarpa* for a synonym of *Juglans mandshurica*, while REHDER (Manual p. 129) keep them distinct. *Juglans mandshurica* is too variable individually and the characteristics chosen by REHDER to separate two species are not available for wild forms. *J. mandshurica* in MIQUEL's Prolusio is *J. Sieboldiana* MAXIMOWICZ, and *J. mandshurica* of PRITZEL (in DIELS, Flora von Central-China) and SKAN (in Journal of the Linnaean Society XXVI) partly is *J. cathayensis* DODE.

(五) 朝鮮產胡桃科植物ノ和名、朝鮮名、
學名ノ對稱

和 名	朝 鮮 名	學 名
のぐるみ	クルナム、クーナム(濟州島)、クルタイナム クルビナム(慶南)	<i>Platycarya strobilacea</i> SIEBOLD & ZUCCARINI
けのぐるみ		<i>Platycarya strobilacea</i> var. <i>coreana</i> MIQUEL
てうちぐるみ	ホトナム、ホトナモ	<i>Juglans sinensis</i> DODE
まんしゅうぐるみ	カライナム	<i>Juglans mandshurica</i> MAXIMOWICZ

(六) 朝鮮產胡桃科植物ノ分布

朝鮮ニ自生スル胡桃科植物ハ種類極メテ少ナク僅カニ 2 種 1 變種アルノミ其中 1 種まんしゅうぐるみハ北地ノ產ニシテ江原、京畿、黃海以北ノ各通ニアリテ北地主要林木ノ 1 ヲナス。其分布ノ概況ハ地圖ニ示スガ如シ、他ノ 1 種ノ變種即チのぐるみトけのぐるみトハ南地性ノモノニシテ京畿、忠北、慶北以南濟州島迄モ分布ス其狀ハ下圖ニ示スガ如シ。



× のぐるみ *Platycarya strobilacea*

△ けのぐるみ *Platycarya strobilacea* v. *coreana*

○ まんしゅうぐるみ *Juglans mandshurica*

木 蘭 科

Magnoliaceae J. St. Hilaire

(→) 主要ナル引用書類

著 者 名

書 名

ADANSON, M. 1) *Anonæ*, in Familles des plantes II p. 359-365 (1763).

BAILEY, L. H. 2) *Cyclopedie of American Horticulture* II (1901). *Illicium* in p. 799; *Kadsura* in p. 852.

BANKS, J. 3) *Standard Cyclopedie of Horticulture* III (1915). *Illicium* in p. 1641; *Kadzura* in p. 1730.

BARTLING, FR. TH. 4) *Kobus & Mokkwuren* 1,2, in *Icones Selectæ Plantarum quas in Japonia collegit et delineavit Engelbertus Kämpfer* Pl. 42-44 (1791).

BAUHINUS, J. 5) *Magnoliaceæ*, in *Ordines Naturales Plantarum* p. 220, 248-249 (1830).

BEAN, W. J. 6) *Zingi fructus stellatus sive Anisum Indicum*, in *Historia Plantarum Liber* IV p. 485-486 (1650).

BEISSNER, L., SCHELLE, E., ZABEL, H. 7) *Trees & Shrubs hardy in the British Isles* (1914). *Illicium* in I p. 652-653; *Kadsura* in p. 678; *Magnolia* in II p. 65-76; *Schizandra* in II p. 503-504.

BENTHAM, G. & HOOKER, J. D. 8) *Magnoliaceæ*, in *Handbuch der Laubholzbenennung* p. 98-102 (1903).

BLUME, C. L. 9) *Magnoliaceæ*, in *Genera Plantarum* I pt. 1 p. 16-20 (1862).

BLUME, C. L. 10) *Magnolia*, in *Beschrijving van eenige Gewassen* p. 140 (1822).

„ 11) *Magnoliaceæ*, in *Bijdragen tot de Flora van Nederlandsch Indiee* I Stuk p. 7-10 (1825); *Sarcocarpone-Sparostema* in p. 21-25.

BLUME, C. L. & FISCHER, J. B. 12) *Schizandreae*, in *Flora Javæ nec non insularum adjacentium* III p. 1-18. tab. I-V (1836).

DUNAL, M. F. 13) *Kadsura*, in *Monographie de la Famille des Anonacées* p. 57-58 (1817).

DIPPEL, L. 14) *Magnoliaceæ*, in *Handbuch der Laubholzkunde* III p. 141-159 (1893).

DON, G. 15) *Magnoliaceæ*, in *A General System of Dichlamy-*

deous Plants I p. 78-86 (1831); *Schizandriaceæ* in p. 101-102.

ENDLICHER, St. 16) Genera Plantarum II (1840); *Schizandraceaæ* p. 835-836; *Magnoliaceaæ* p. 836-839.

EICHLER, A. W. 17) Blütendiagramme II; *Magnoliaceaæ* p. 148-152 fig. 57 (1875).

ELLIS, J. 18) *Illicium floridanum* in Philosophical Transaction LX p. 524-531 Pl. XII (1770).

FINET, A. & GAGNEPAIN, F. 19) *Magnoliaceaæ* in Contributions a la Flore de l'Asie orientale fasc. II. in Mémoires de la Société botanique de France IV p. 23-54 Pl. IV-VIII (1905).

FRANCHET, A. & SAVATIER, L. 20) *Magnoliaceaæ*, in Enumeratio Plantarum Japonicarum I pt. 1 p. 15-19 (1874),

GÆRTNER, J. 21) *Illicium*, in De Fructibus & Seminibus Plantarum I p. 338-339 Tab. LXIX fig. 6 (1780).

GRAY, A. 22) *Magnoliaceaæ*, in Genera Floræ Americae Boreali-orientalis Illustrata I p. 53-64 (1849).

" 23) *Magnoliaceaæ*, in 'On the Botany of Japan, in Mémoire of the American Academy of Arts and Sciences, new series VI p. 380 (1859).

GMELIN, J. F. 24) *Illicium-Michelia*, in Systema Naturæ II pt. 1. p. 867-868 no. 611-691 (1791).

GUILLEMIN, N. 25) *Schizandra & Schizandreaæ*, in Dictionnaire Classique d'histoire naturelle XV (Rua-S) p. 239 (1829).

HEMSLEY, W. B. 26) *Magnoliaceaæ*, in The Journal of the Linnæan Society, Botany XXIII p. 23-25 (1886).

HOOKER, J. D. 27) *Magnolia parviflora*, in Botanical Magazine CXXI t. 7411 (1895).

HOOKER, J. D. & THOMSON, T. 28) *Magnoliaceaæ* in The Flora of British India I p. 38-45 (1872).

DE CANDOLLE, A. P. 29) Regni Vegetabilis Systema Naturale I (1818); *Magnoliaceaæ* p. 439-462; *Kadsura* p. 465-466; *Menispermaceaæ* spuriæ & *Schizandra* p. 544-545; *Tasmannia* p. 547-548.

" 30) Prodromus Systematis Naturalis Regni Vegetabilis I (1824); *Magnoliaceaæ* p. 77-82; *Kadsura* p. 83; *Menispermaceaæ* trib. *Schizandreaæ* p. 104.

DE JUSSIEU, A. L. 31) *Magnolia*, in Genera Plantarum p. 280-281 (1789).

DE JUSSIEU, A. L. 32) *Kadsura*, in Annales du Muséum d'Histoire Naturelle XVI p. 540 (Sur quelques genres des plantes de LOUREIRO etc) (1810).

KÆMPFER, E. 33) *Somo, vulgo Skimmi*, in Amoenitatum Exoticarum p. 880-883, tab. in p. 881 (1712).

" 34) *Futo Kadsura sive Sane Kadsura*, in Histoire du Japon I t. 42 (1729), II, p. 26 (1729).

KOCH, K. 35) Dendrologie I pt. 1 (1868); *Magnoliaceæ* p. 366-381; *Menispermaceæ* 1 Unterfam. *Schizandreae* p. 385-387,

KOEHNE, E. 36) Deutsche Dendrologie (1893); *Magnoliaceæ* p. 144. 145-149 fig. 28.

LAUHE, W. 37) Deutsche Dendrologie (1890); *Magnoliaceæ* p. 376-381.

LINNÆUS, C. 38) Genera Plantarum ed. 1 (1737); *Magnolia* p. 162 no. 456.

" 39) Genera Plantarum ed. V (1754); *Liriodendrum-Uvaria* p. 239-240.

" 40) *Amentaceaæ*, in Philosophia Botanica p. 28 (1751).

" 41) Species Plantarum ed. 1 (1753), *Liriodendron-Uvaria* p. 535-536.

" 42) *Badianifera*, in Materia Medica p. 180 (1749).

" 43) *Illicium*, in Systema Vegetabilium ed. X p. 1050 (1759).

" 44) Genera Plantarum ed. VI (1764); *Illicium* in p. 244; *Liriodendron-Uvaria* p. 278-279.

" 45) Genera Plantarum ed. novissima (1767); *Illicium* in p. 244; *Liriodendron-Uvaria* p. 278-279.

LINDLEY, J. 46) *Magnoliaceaæ*, in An Introduction to the Natural System of Botany p. 24-25 (1830).

" 47) A Natural System of Botany (1836); *Magnoliaceaæ* in p. 16; *Winteraceaæ* in p. 17; *Schizandreae* in p. 19-20.

LOUDON, J. C. 48) Arboretum & Fruticetum Britannicum I (1838), *Winteraceaæ* p. 256-259; *Magnoliaceaæ* p. 259-291.

MAKINO, T. & NEMOTO, K. 49) Flora of Japan ed. 1 (1925); *Magnoliaceaæ* in p. 937-942.

" 50) Flora of Japan ed. 2 (1931), *Magnoliaceaæ* in p. 353-361.

MATSUDA, S. 51) On the Anatomy of *Magnoliaceaæ*, in Journal of the

College of Science, Imperial University, Japan
VI pt. 2 p. 115-149 Pl. II-V (1893).

MATSUMURA, J.

MAXIMOWICZ, C. J.

"

"

MAYR, H.

MEISSNER, C. F.

MICHAUX, A.

MILLAIS, J. G.

MIQUEL, F. A. G.

"

MORI, T.

NAKAI, T.

"

"

NICHOLSON, G.

PARMENTIER, PAUL

52) Index Plantarum Japonicarum II pt. 2 (1912), *Magnoliaceæ* in p. 93-97.

53) *Schizandraceæ* in Mémoires présentés à l'Académie impériale des sciences de St. Pétersbourg par divers savants, Tome IX p. 31-32 (1859).

54) *Magnolia compressa*—*Magnolia hypoleuca* β . *concolor*, in Bulletin de l'Académie des Sciences de St. Pétersbourg XVIII p. 417-418 (1872).

55) *Magnolia compressa*—*Magnolia hypoleuca* β . *concolor*, in Mélanges Biologiques VIII p. 506-510 (1872).

56) Fremdländische Wald-und Park-bäume für Europa (1906); *Liriodendron* p. 479-480 fig. 204; *Magnolia* in p. 480-484 fig. 205-207.

57) Plantarum Vascularium Genera secundum ordines naturales digesta eorumque differentiæ et affinitates tabulis diagnosticis expositæ; *Magnoliaceæ* in I p. 3 (1836), II p. 5 (1843); *Menispermaceæ* Trib. *Schizandraceæ* in I p. 5 (1836), II p. 7 (1843).

58) Flora Boreali-Americanæ ed. 1. Tome II, *Schizandra* in p. 218-219 tab. 47 (1803).

59) Magnolias 251 pages (1927).

60) Flora Indiæ Batavae I pt. 2. (1859), *Magnoliaceæ* in p. 13-18. *Schizandraceæ* in p. 18-20,

61) *Magnoliaceæ*, in Annales Musei Botanici Lugduno-Batavi II p. 257-258 (1866).

62) An Enumeration of Corean Plants (1922), *Magnoliaceæ* in p. 165-166.

63) *Magnoliaceæ*, in Flora Koreana I p. 37-39 (1909).

64) *Magnoliaceæ*, in Chosen Shokubutsu I p. 77-80 fig. 74-76 (1914).

65) *Illicium religiosum*, in Tokyo Botanical Magazine N XXVI p. 119-120 (1922).

66) The Illustrated Dictionary of Gardening; II (Nov. 1888), *Illicium* in p. 177, *Kadsura* in p. 214, *Magnolia* in p. 315-316; III (Dec. 1888), *Schizandra* in p. 383.

67) Histoire des *Magnoliacées* in Bulletin Scientifique

de la France et de la Belgique Tome XXVII
p. 159-337 tab. VIII-XI (1896).

PERSOON, C. H. 68) Synopsis Plantarum II pt. 1 (1806), *Magnoliæ* in p. 92-94.

PETZOLD & KIRCHNER 69) Arboretum Muscaviense (1864), *Magnoliaceæ* in p. 113-119.

PLUMIER, P. C. 70) Nova Plantarum Americanarum Genera (1703), *Magnolia* in p. 38-39 t. 7.

PRANTL, K. 71) *Magnoliaceæ* in ENGLER & PRANTL, Die Natürliche Pflanzenfamilien III Abt. 2 p. 12-19 (1888).

REHDER, A. 72) *Magnolia* in BAILEY, Cyclopedias of American Horticulture II p. 964-968 (1901), *Schizandra* in IV p. 1625 (1902).

" 73) *Magnolia* in BAILEY, Standard Cyclopedias of Horticulture IV p. 1964-1969 (1916); *Schizandra* in VI p. 3110-3111 (1917).

" 74) *Magnoliaceæ*, in Journal of the Arnold Arboretum V p. 145-148 (1924).

" 75) *Magnoliaceæ*, in Manual of Cultivated Trees and Shrubs p. 252-261 (1927).

REHDER, & WILSON, E. H. 76) *Magnoliaceæ*, in SARGENT, Plantæ Wilsonianæ I pt. 3 p. 391-418 (1913).

RUPRECHT, F. J. & MAXIMOWICZ, C. J.

" 77) *Maximowiczia*, in Bulletin de la Classe Physico-Mathématique de l'Académie Impériale des Sciences Tome XV p. 142 (1856)

" 78) *Maximowiczia amurensis*, l. c. p. 124 cum tab. (1856).

" 79) *Maximowiczia* in Mélanges Biologiques Tome II p. 439 cum tab. (1856).

" 80) *Maximowiczia amurensis* in l. c. p. 412 (1856).

ST. HILAIRE, J. 81) Exposition des Familles Naturelles II, *Magnoliaceæ* in p. 74-76 t. 83 (1805),

SCHNEIDER, C. K. 82) Illustriertes Handbuch der Laubholzkunde I (1905), *Magnoliaceæ* in p. 328-342.

SIEBOLD, PH. FR. & ZUCCARINI, J. G.

" 83) *Magnoliaceæ* in Abhandlungen der II Classe der Kaiserlichen Academien der Wissenschaften zu Muenchen IV Abt. II p. 185-188 (1845); *Schizandraceæ* in p. 188.

SPACH, É. 84) Histoire Naturelle des Végétaux VII (1839), *Mag-*

THUNBERG, C. P.

"

VENTENAT, E. P.

VITMAN, A. F.

WILDENOW, C. L.

"

"

85) Flora Japonica (1784), *Illicium-Uvaria* in p. 235-238

86) *Magnolia tomentosa* in Icones Plantarum Japonicarum Decas V Pl. VIII (1805).

87) Tableau du règne végétale III (1799), *Tulipiferae* in p. 68-75.

88) Summa Plantarum III (1789), *Illicium-Michelia* in p. 336-338.

89) *Magnolia* in Berlinische Baumzucht p. 188-190 (1784).

90) Species Plantarum II pt. 2 (1799), *Illicium-Michelia* in p. 1254-1261.

91) *Magnolia* in Die Wilde Baumzucht p. 229-231 (1811).

(二) 朝鮮產木蘭科植物研究ノ歴史

1898 年露國ノ J. PALIBIN 氏ハ Acta Horti Petropolitani XVIII 卷ニ
Magnolia obovata THUNBERG, *Magnolia parviflora* SIEBOLD & ZUCCARINI
おほやまれんげノ 2 種ガ朝鮮ニ産スル由ヲ報ゼシモ *Magnolia obovata* ハ
ほほのきノ學名ニシテ朝鮮ニハナク氏ガ此學名ヲ當タル標本ハしもく
れん *Magnolia liliiflora* ニシテ其ハ朝鮮ニ栽培スルモノニテ朝鮮固有ノ
植物ニ非ズ。

1903年露國ノ V. KOMAROV 氏ハ Acta Horti Petropolitani XXII 卷ニ
はくもくれん *Magnolia conspicua* SALISBURY ガ北鮮ニ自生スル事ヲ記
セシモ此ハあほやまれんげヲ誤認セシナリ。

1908 年著者ガ今川唯市氏ノ北鮮採收品ニ就テ植物學雜誌第 22 卷ニ記セシ中ニあほやまれんげアリ。

1909 年著者ノ Flora Koreana 第 1 卷ニハ木蘭科植物トシテおほやまれんげトてうせんごみし *Schizandra chinensis* ト *Magnolia obovata* ヲ記シアレモ此 *Magnolia obovata* ハ其當時 PALIBIN 氏ノ書ニアリシヲ轉載セシモノニテしもくれんノ誤ナリ。

1911 年著者ノ Flora Koreana 第 II 卷ニハ北鮮產ノおほやまれんげヲ
加ヘアリ、此ハ KOMAROV 氏ガ嘗テはくもくれんトシテ發表セシ標本ニ
基ケルナリ。

1914 年著者ノ濟州島植物調査書ニハしきみ *Illicium anisatum* L., さねかづら *Kadsura japonica* JUSS., こぶし *Magnolia gracilis* SALISBURY, あほやまれんげ *Magnolia parviflora* S. & Z., てうせんごみし *Schizandra chinensis* ノ 5 種ヲ記セリ、但こぶしノ學名ハ *Magnolia kobus* トスペクト てうせんごみしト誤認セシハまつぶさ *Schizandra nigra* ナリ。

同年同時ニ印刷サレシ著者ノ莞島植物調査書ニハ莞島ニさねかづらノ自生スル事ヲ記ス。

1915 年版著者ノ智異山植物調査書ニハあほやまれんげトてうせんごみしトガ智異山彙ニ自生スル事ヲ報ジアリ。

1918 年版著者ノ金剛山植物調査書ニハ同ジクあほやまれんげトてうせんごみしトガ金剛山彙ニ自生スル事ヲ記セリ。

1922 年森爲三氏著朝鮮植物名彙ニハはくもくれん、しもくれん、あほやまれんげ、てうせんごみし、しきみガ朝鮮ニ產スル事ヲ記セドモはくもくれんハ KOMAROV 氏ノ誤認ヲ其儘寫セニスギズ。

同年著者ハしきみガ珍島ニモ自生スル事ヲ植物學雜誌第 36 卷ニ記シ置ケリ。

1932 年著者ハ光陵試驗林一斑中ニあほやまれんげトてうせんごみしトガ光陵試驗林中ニ自生シ居ル事ヲ報ゼリ。

(三) 朝鮮產木蘭科植物ノ効用

てうせんごみしノ果實ハ之ヲ五味子ト稱シ漢法ニハ主トシテ強精ニ用キ又逆セヲ下ゲ嘔氣、熱氣ヲ去ルニモ用フ。

まつぶさハ濟州島ニノミアリテ同ジク五味子ト稱スレモ藥用ニ用キズ專ラ其實ヲ食用ニシ觀音寺ノ寺僧ハ其レヨリ果液ヲ採リ發酵セシメテ飲ム。

さねかづらハ極メテ稀ニ朝鮮紙ノ糊ニ用フルコトアレモ内地ニテ以前髪ノくせ直シニ用キシ如キコトハナサズ。

あほやまれんげモこぶしモ觀賞用ニ用キルコトナク唯しもくれんハ古クヨリ支那ヨリ移シテ其花ヲ賞ス、南地性植物故京城ニアリテハ冬ハ溫突ニ圍ヒ又ハ暖キ南面ノ所ニ大切ニ植エ晚春初夏其花ヲ誇ル、支那ヨリ輸入ノ當初ハ觀賞藥用ヲ兼ネシャモ知レザレドモ今ハ藥用トスルモノナシ、漢法ニハ其皮ヲ下熱利尿ニ用フ。

(四) 朝鮮產木蘭科植物ノ分類

木 蘭 科

喬木又ハ灌木又ハ纏攀性ノ木本ニシテ草本ハナシ。雌雄異株又ハ同株又ハ兩全花ヲ有ス。葉ハ互生有柄1年生又ハ2年生托葉アルモノトナキモノトアリ、葉身ハ羽狀脈ヲ有シ全緣又ハ鋸齒アリ、芽ノ鱗片ハ相重ナルモノト帽狀トナルアリ。花ハ頂生又ハ腋生、有柄又ハ無柄、花被ハ3數ニシテ2-8列ニ相重ナリテ生ズ。雄蕊ハ多數離生又ハ横ニ又ハ頭狀ニ相應合シ薬ハ2室側開又ハ内開、薬間ハヨク發達ス。心皮ハ1-∞個單獨又ハ放射狀又ハ頭狀ニ排列シ離生又ハ稀ニ相應合ス。柱頭ハ1個多數ノ裂葉ヲ有スルアリ無柄又ハ有柄、子房ハ無柄1室縫合線ニ倒生ノ1乃至數個ノ卵子ヲ附ク珠被ハ2重、花托ハ花後成長シ往々多肉トナリ球狀又ハ棒狀トナルアリ、果實ハ漿果又ハ蓇葖、種皮ハ海綿狀、殼狀又ハ軟ク或ハ偽果皮ヲ有ス、胚乳ハヨク發達シ胚ハ小サク倒生ナリ。

溫帶、暖帶、熱帶ニ亘リ8屬100餘種アリ、其中朝鮮ニハ4屬6種ノ自生アリ、分テ次ノ3族トス。

1	莖ハ纏攀性、芽ハ相重ナレル鱗片ニテ被ハル、葉ハ1年生又ハ1部ハ2年生、托葉ナシ、花ハ單性、兩全又ハ多性、花托ハ果實ニアリテハ多肉トナル。果實ハ漿果.....	まつぶさ族
	莖ハ立チ纏攀スル事ナシ、花ハ兩全。.....	2
2	芽ハ帽狀ノ鱗片ニテ包マル。葉ハ1年生又ハ2年生托葉アリ、果實ハ多列ニ並ビ裂開スルモノトセザルモノトアリ種皮ハ多肉ナリ。	もくれん族

	芽ハ相重ナレル鱗片ニテ被ハル、葉ハ2年生托葉ナシ。果實ハ單一又ハ放射狀ニ相並ブ裂開スルトセザルトアリ。種皮ハ堅ク光澤アリ。	しきみ族

Magnoliaceæ J. ST. HILAIRE, Exposit. Fam. Nat. II p. 74 (1805)-A. P. DE CANDOLLE, Syst. Nat. Veg. I p. 439 (1818)-DUMORTIER, Demonst. Bot. p. 63 (1822)-BARTLING, Ord. Nat. Pl. p. 220 & 248 (1830)-G. DON, Gen. Hist. Dichl. Pl. I p. 78 (1831)-LINDLEY, Nat. Syst. Bot. p. 16 (1836)-MEISSNER, Pl. Vasc. Gen. I p. 3 (1836); II p. 5 (1843)-LOUDON, Arb. & Frut. Brit. I p. 259 (1838).-SPACH, Hist. Végét. VII p. 427 (1839)-ENDLICH, Gen. Pl. II p. 836 (1840)-BLUME, Fl. Jav. III Magnol. p. 1-40 t.

I-XII (1836)—AGARDH, Theor. p. 129 (1858)—MIQUEL, Fl. Ind. Bat. I pt. 2 p. 13 (1859)—BENTHAM & HOOKER, Gen. Pl. I pt. 16 (1862)—PRANTL in ENGLER & PRANTL, Nat. Pflanzenfam. III Abt. 2, p. 12 (1888)—KOORDERS, Excursionsfl. Java II p. 237 (1912).

Syn. *Coadunatæ*, LINNÆUS, Phil. Bot. p. 28 (1751), pro parte.

Anonæ ADANSON, Fam. Pl. II p. 359 (1763), pro parte.—DURAND, Not. Élém. Bot. p. 283 (1781), pro parte.

Magnoliæ JUSSIEU, Gen. Pl. p. 280 (1789)—PERSOON, Syn. Pl. II pt. 1 p. 92 (1806), pro parte.

Tulipiferæ VENTENAT, Tab. Règn. Véget. III p. 68 (1799).

Anonaceæ A. P. DE CANDOLLE, Syst. I p. 463 (1818), pro parte.

Menispermæ A. P. DE CANDOLLE, l. c. p. 509, pro parte.

Schizandriacæ G. DON, l. c. p. 101.

Winteraceæ LINDLEY, l. c. p. 17—LOUDON, l. c. p. 256.

Schizandreae BLUME apud LINDLEY, l. c. p. 19.

Schizandraceæ BLUME & FISCHER, Fl. Jav. III p. 1 (1836)—ENDLICH, Gen. Pl. II p. 835—AGARDH, l. c. p. 138.

Menispermaceæ MEISSNER, l. c. II p. 6, pro parte.

Arbores, frutices, erecti vel volubiles, dioici vel monoeici vel polygami vel hermaphroditæ. Folia alterna annua vel biennia stipullata vel exstipullata penninervia integra vel serrata. Squamæ gemmarum imbricatae vel calyptiformes. Flores terminales vel laterales sessiles vel pedunculati. Tepala trimera 2—∞ serialia. Stamina numerosa libera vel connata, antheræ loculi connectivo laterali-affixæ introrsæ vel laterales. Carpella 1—∞, solitaria vel stellatim vel capitatum collocata libera rarius connata. Stigma 1 integrum vel lobulato-laceratum sessile vel stylosum. Ovarium sessile uniloculare ventre 1-oligo-ovulatum. Ovulum anatro-pum dichlamydeum. Torus saepe post anthesin elongatus vel capitato-incrassatus. Fructus baccatus vel capsularis dehisces vel indehisces, Semen cum testa spongiosa vel crustacea vel carnosa, albuminosa. Embryo minima.

Genera 8, species ultra 100 in regionibus temperatis, calidis et tropicis incola. In Korea species 6 generum 4 spontaneæ.

Caulis volubilis. Gemmæ squamis imbricatis obtectæ. Folia decidue, duæ vel sempervirentia exstipullata. Flores monoeici, hermaphro-

1 { diti, vel polygami. Torus in fructu incrassatus vel elongatus.
Fructus baccatus. Trib. 1. *Schizandraceæ*.
Caulis erectus non volubilis. Flores hermaphroditi. Fructus capsularis. 2

2 { Gemmae squamis calyptiformibus obtectæ. Folia decidua vel semper-virentia cum stipulis caducis. Carpella multiseriata dehiscentia vel indehiscentia. Testa seminum carnosa.
..... Trib. 2. *Magnolieæ*.
(Gemmae squamis imbricatis obtectæ. Folia semper-virentia exstipulata. Carpella stellato-verticillata vel simplicia, dehiscentia vel indehiscentia. Testa seminum crustacea nitida.
..... Trib. 3. *Winteriæ*.

第 1 屬 まつぶさ屬

莖ハ木質纏卷性、葉ハ1年生又ハ2年生互生有柄托葉ナシ、花ハ單性若枝ノ基部ニ腋生シ1-2個宛出ヅ、帶黃色、白色又ハ紅色、雄花ハ相重ナリ内方程大サヲ減ズル花被ト5-15個ノ相應合セル雄蕊トヲ有ス。雌花ハ相重ナレル花被ト頭狀ニ相重レル多數ノ心皮トヲ有ス。子房ニハ2個ノ卵子アリ。花托ハ花後成育シ或ハ長ク或ハ頭狀トナル。果實ハ漿果、紅色又ハ黑色、種皮ハ海綿狀又ハ堅シ。

亞細亞ノ東部ト熱帶地方及ビ北米ノ南部ニ亘リ12種アリ。其中1種ハ朝鮮半島ニ1種ハ濟州島ニモアリ。

{ 葉ハ卵形、果實ハ黑色白粉ヲ被ル。 まつぶさ
葉ハ長橢圓形又ハ卵形又ハ橢圓形、果實ハ紅色。 てうせんごみし

1. まつぶさ

オーミジャ(濟州島)

(第 XIX 圖)

樹皮ハ始メ紅褐色後灰褐色トナリ老木ニテハ木栓質ヨク發達ス。芽ハ披針形又ハ卵形長サ2-7mm. 褐色ノ多數ノ鱗片ニテ被ハル。葉柄ハ長サ7-25mm. 無毛基部ハ幅廣シ、葉身ハ廣卵形又ハ圓卵形又ハ卵形長サ27-60mm. 幅22-44mm. ヤハ厚ク毛ナシ、基脚ハ丸キカ又ハ截形先端ハ急ニトガリ緣ニハ疎ニ腺狀ノ突起アリ、表面ハ綠色裏面ハ淡綠色又白味アリ、未ダ濟州島產ノモノハ花ヲ見ズ、果梗ハ長サ50-62mm. 幅1-

2 mm. 中央部最モ細シ、果托ハ長サ 42-48 mm. 幅 2-3 mm. 粧果ハ始メ紅味ヲ帶ビ始メ後ニ黒熟シ白粉ヲ被リ食シ得、果托上ニ互生シ徑 8-10 mm. 種子ハ各果ニ 1-2 個アリ。

濟州島ノ樹林ニ自生ス。

(分布) 本島、四國、九州。

2. てうせんごみし (朝鮮五味子)

オーミジヤ (全鮮)

(第 XX 圖)

雌雄異株、莖ハ纏卷シ樹膚ハ褐色、葉ハ長枝ニアリテハ相隔リテ互生スレドモ短枝ニアリテハ密生ス。葉柄ハ綠色又ハ帶紅色長サ 15-35 mm. 葉身ハ橢圓形又ハ廣橢圓形又ハ廣倒卵形又ハ殆ンド丸ク基脚ハ急尖、尖銳又ハ漸尖先端ハ急ニトガル緣ニハ疎ニ腺狀ノ鋸齒アリ表面ハ綠色裏面ハ淡綠色ニシテ葉脈上ニ長キ毛アリ、(但シ全ク毛ナキ變種モアリ)、長サ 20-123 mm. 幅 11-92 mm. 花ハ花枝ノ下ニアル鱗片葉ニ腋生ス、花梗ハ獨生分岐セズ長サ 14-28 mm. 無毛纖弱ナレドモ雌花ノ花梗ハ雄花ノ花梗ヨリモ太シ、雄花ハ 6-8 個ノ淡黃色長橢圓形ノ花被ヲ有ス、花被ノ長サハ 5-10 mm. 幅 2,5-4 mm. 雄蕊ハ 5 個長サ 2,5-3 mm. ニシテ柱狀ニ相應着シ薬間ハ大ナリ、薬室ハ 2 個薬間ノ側方ニ縦ニ附着ス。雌花ハ 6-9 個ノ花被ヲ有ス。花被ハ長橢圓形又ハ橢圓形長サ 7-10 mm. 幅 4-5 mm. 淡黃色、雄蕊ナシ、心皮ハ多數頭狀ニ相重ナリ 2 室、柱頭ハ斜ニ附キ形ハ種々アリ、花托ハ花後急ニ伸長シ果實ニアリテハ長サ 25-82 mm. 幅 2-3,5 mm. 粧果ハ紅色又ハ暗血色球形又ハ倒卵球形長サ 6-12 mm. 食シ得ズ、種子ハ各果ニ 1-2 個。

咸南、咸北、平北、平南、江原、京畿、慶南、慶北、全北、全南ノ山地樹林ニ生ズ。未ダ黃海、忠北、忠南ニテ採ラザレドモ產スルナルベシ。

一種葉裏ニ全ク毛ナキモノアリ、之ヲいみてうせんごみしト謂フ、咸南、平北、黃海、京畿ニテ發見ス。

Magnoliaceæ Trib. Schizandreae A. GRAY, Gen. N. America. I p. 54 (1849)-BENTHAM & HOOKER, Gen. Pl. I pt. 1 p. 17 (1862)-FICHLER, Bluttendiagr. II p. 151 (1875)-PRANTL in ENGLER & PRANTL, Nat. Pflanzenfam. III Abt. 2 p. 17 (1888)-KOORDERS, Excursionsfl. Java II p. 238 (1912). Syn. *Menispermeæ* Trib. II *Spuriæ* A. P. DE CANDOLLE, Syst. I p. 543 (1818).

Anonaceæ § 1. *Anonaceæ* A.P.DE CANDOLLE, Prodr. I p. 83 (1824), pro parte.

Menispermeæ Trib. III. *Schizandreae* A.P.DE CANDOLLE, Prodr. I p. 104 (1824).

Schizandreae GUILLEMIN in Dict. Class. d'hist. nat. XV. p. 239 (1829).

Schizandriaceæ G. DON, Gen. Hist. Dichl. Pl. I p. 101 (1831).

Menispermaceæ Trib. I. *Schizandraceaæ* MEISSNER, Pl. Vasc. Gen. I p. 5 (1836); II p. 7 (1843).

Schizandraceaæ BLUME & FISCHER, Fl. Jav. III p. 1 (1836).—WALPERS, Ann. IV p. 78 (1857).

Schizandreae BLUME apud LINDLEY, Nat. Syst. Bot. p. 19 (1836)—MIQUEL, Fl. Ind. Bat. I pt. 2 p. 18 (1859).

Menispermaceaæ Trib. *Schizandreae* BLUME apud SPACH, Hist. Véget. VIII p. 6 (1839).

Caulis lignosus volubilis. Gemmæ squamis imbricatis obtectæ. Folia decidua vel sempervirentia exstipullata. Flores monoeici, hermaphroditi vel polygami. Torus in fructu incrassatus vel valde elongatus. Fructus baccatus.

Genera 2 in Korea indigena, qua in sequenti modo distinguenda.

{ Vulgo monoeici. Torus in fructu valde elongatus.

..... *Schizandra*

| Vulgo polygamo-dioici. Torus in fructu capitatus. *Kadsura*

Gn. 1. **Schizandra** MICHAUX, Fl. Bor.-Americanæ II p. 218 t. 47 (1803)—A.P.DE CANDOLLE, Syst. I p. 544 (1818); Prodr. I p. 104 (1824)—G. DON, Gen. Hist. Dichl. Pl. I p. 101 (1831)—SPACH, Hist. Vég. VIII p. 10 (1839)—A. GRAY, Gen. Illus. I p. 57 t. 22 (1849) ex errore typograph. t. 27.—ENDLICHER, Gen. Pl. II p. 836 (1840)—MEISSNER, Pl. Vasc. Gen. I p. 5 (1836) II p. 7 (1843)—BENTHAM & HOOKER, Gen. Pl. I pt. I p. 19 (1862)—PRANTL in ENGLER & PRANTL, Nat. Pflanzenfam. III Abt. 2 p. 18 (1888)—DIPPEL, Handb. Laubholzk. III p. 156 (1893).—SCHNEIDER, Illus. Handb. I p. 341 (1905)—KOORDERS, Excursionsfl. Java II p. 242 (1912).

Syn. *Sphaerostema* BLUME, Bijidr. p. 22 (1825); Fl. Jav. III t. 3, 4, 5 (1836)—MEISSNER, Pl. Vasc. Gen. II p. (1843).

Sphærostemma G. DON, I. c.

Maximowiczia RUPRECHT in Bull. Phys.-Math. Acad. Imp. St. Pétersb. XV. p. 142 cum fig (1856); in Mél. Biol. II p. 439 cum tab. (1856)—MAXIMOWICZ in Mém. prés. Acad. Imp. St. Pétersb. div. sav. IX p. 31 (1859).

Maximovitzia BENTHAM & HOOKER, Gen. Pl. I p. 19 (1862).

Caulis volubilis. Folia annua vel biennia alterna petiolata exstipulata, Flores monœci in parte inferiore innovationum axillares solitarii vel bini, flavidæ, albi, vel rubri. Flores masculi tepalis imbricatis interioribus majoribus petaloideis, staminibus 5–15 monadelphis, loculis antherarum binis. Flores fœminei tepalis imbricatis, carpellis multis capitato-imbricatis, ovario 2-ovulato, uniloculare vel biloculare. Torus in fructu carnosus elongatus vel globosus. Carpella in maturitate baccata rubra vel nigra. Testa seminum pulposa vel crustacea.

Species 12 in Asia orientali, tropici et in America boreali crescent, quæ in sequentibus sectionibus dividuendæ.

Dioicus. Folia decidua, Sepala nulla. Petala 6–9 flava. Stamina monadelpha columnale connata. Ovarium biloculare. Ovula in quoque loculo 1 ab apice pendula. Sect. *Maximowiczia*.

Monoeicus. Folia decidua. Sepala 3 viridia decidua. Petala 6 coccinea. Stamina 5 monadelpha. Ovarium uniloculare. Ovula 2 ventralia pendula. Sect. *Eu-Schizandra*.

Monoeicus vel dioicus. Folia sempervirentia. Sepala 3 viridia. Petala 6 rubra. Stamina numerosa imbricatim capitato-connata. Ovarium 1-loculare 2-ovulatum, ovulis ventralibus pendulis.

.... Sect. *Sphærostema*.

Plantæ Koreanæ generis *Schizandrae* omnes sectione *Maximowiczia* sunt.

{ Folia late-ovata plana. Fructus niger pruinosus. *S. nigra*.

{ Folia elliptica vel oblonga venis primariis impressis. Fructus ruber. *S. chinensis*.

1. ***Schizandra nigra* MAXIMOWICZ**

(*Tabula nostra XIX*)

***Schizandra nigra* MAXIMOWICZ** in Bull. Acad. Sci. St. Pétersb. XVII

p. 144 (1872); in Mél. Biol. VIII p. 370 (1872)—FRANCHET & SAVATIER, Enum. Pl. Jap. I pt. p. 18 (1874)—MATSUMURA, Nippon Shokubutsumeii p. 174 (1884); Shokubutsu Meii p. 267 (1895)—REHDER in BAILEY, Cyclop. Amer. Hort. IV p. 1625 (1901).—BEISSNER, SCHELLE & ZABEL, Handb. Laubholzbenn. p. 102 (1903).—SCHNEIDER, Illus. Handb. I p. 341 (1905)—FINET & GAGNEPAIN, Contrib. Fl. Asie orient. II p. 50 (1905)—MATSUMURA, Ind. Pl. Jap. II pt. 2 p. 97 (1912), pro parte—REHDER in BAILEY, Stand. Cyclop. Hort. VI p. 3110 (1917)—MORI, Enum. Corean Pl. p. 166 (1922)—MAKINO & NEMOTO, Fl. Jap. ed. 1 p. 942 (1925); ed. 2 p. 358 (1931).
Syn. *Schizandra chinensis* (non BAILLON) MATSUMURA, Cat. Pl. Herb. Imp. Univ. p. 8 (1886)—NAKAI, Veget. Isl. Quelpaert, p. 47 no. 644 (1914).

Cortex rubro-fuscus demum cinereo-fuscescens, in vetusto suberosus. Caulis usque 20–30 cm. latus. Gemmæ lanceolatæ vel ovatæ 2–7 mm. longæ squamis fuscis multis imbricatis. Petioli 7–25 mm. longi glaberrimi basi dilatati. Lamina foliorum late-ovata vel rotundato-ovata vel ovata 27–60 mm. longa 22–44 mm. lata chartacea glaberrima basi rotundata vel subtruncata apice mucronata margine remote repando-glandulosopunctato-denticulata supra viridia infra pallida vel albescens non glauca. Flores in nostris speciminibus Koreanis ignoti. Pedunculi fructiferi 50–62 mm. longi 1–2 mm. lati medio angustissimi. Discus fructifer nutans 42–48 mm. longus 2–3 mm. latus. Drupa sphærica primo rubicunda demum nigricans pruinosa edulis supra discum alternatim disposita 8–10 mm. lata. Semina in quaque drupa 1–2.

Nom. Jap. *Matsubusa*.

Nom. Quelpærtense : *Ohmidja*.

Hab.

Quelpaert : in dumosis (U. FAURIE no. 1678, 1682); in sepibus Hallaisan 1300 m. (E. TAQUET no. 340); in silvis Yengsil 1000 m. (E. TAQUET no. 4108); in silvis lateralis montis Hallasan (T. NAKAI no. 4946); in valle sub templum Kwannonji (T. NAKAI no. 4948); in silvis Hallasan (T. NAKAI no. 872, 873, 874).

Distr. Hondo, Shikoku, Kiusiu.

In Hondo, one more undescribed species exists which is distinguished

from *Schizandra nigra* by having grayish bark and the leaves niveo-glau-
cous on the undersurface. This should be called as *Schizandra discolor*
NAKAI.

Schizandra discolor NAKAI, sp. nov.

Syn. *Schizandra nigra* (non MAXIMOWICZ) MATSUMURA, Ind. Pl. Jap. II
pt. 2 p. 97 (1912), pro parte,

Cortex cinereus. Folia apice ramorum abbreviatorum conferta. Pe-
tioli 7–37 mm. longi. Lamina foliorum 20–95 mm. longa 15–66 mm. lata
rotundato-elliptica utrinque mucronata supra viridis infra nivea margine
integra vel remote glanduloso-punctata. Flores ignoti. Pedunculi fructi-
feri 36–52 mm. longi. Discus 37–50 mm. longus. Bacca nigra sphærica
diametro 8–12 mm.

Nom. Jap. *Urajiro-matsubusa*

Hab. in Hondo.

Prov. Aki: in silvis insulæ Miyajima (B. HAYATA, typus in Herb. Imp.
Univ. Tokyo).

Prov. Idzu: insula Hatsidjō (T. NAKAI).

Prov. Mutsu: oppido Okunai (N. KINASHI).

2. **Schizandra chinensis** (TURCZANINOV) BAILLON

(Tabula nostra XX)

Schizandra chinensis (TURCZANINOV) BAILLON, Hist. Pl. I p. 148
(1868)–FRANCHET & SAVATIER, Enum. Pl. Jap. I pt. 1 p. 17 (1874)–FRAN-
CHET in Nouv. Arch. Mus. Paris 2 sér. V p. 176 (1882); Pl. David. I p.
24 (1884)–MATSUMURA, Nippon Shokubutsumeii p. 174 (1884)–HEMSLEY
in Journ. Linn. Soc. XXIII p. 25 (1886), pro parte–NICHOLSON, Illus. Dict.
Gard. III p. 383 (1888)–PRANTL in ENGLER & PRANTL, Nat. Pflanzenfam.
III Abt. 2 p. 18 (1891)–KOEHNE, Deutsch. Dendrol. p. 149 fig. 28 A–H
(1893)–MATSUMURA, Shokubutsu Meii p. 267 (1895)–REHDER in BAILEY,
Cyclop. Americ. Hort. IV p. 1625 (1901)–BEISSNER, SCHELLE & ZABEL,
Handb. Laubholzbenn. p. 102 (1903)–KOMAROV. Fl. Mansh. II p. 221
(1904)–FINET & GAGNEPAIN, Contrib. Fl. Asie-orient. II p. 49 (1905), pro
parte–SCHNEIDER, Illus. Handb. Laubholzk. I p. 341 fig. 218 a, 219 a–i
(1905)–NAKAI, Fl. Kor. I p. 38 (1909)–BEAN, Trees & Shrubs. II p. 504

(1914)—NAKAI, Veget. Chirisan Mts p. 33 no. 202 (1915)—MIYABE & MIYAKE, Fl. Saghaline p. 25 (1915)—REHDER in BAILEY, Stand. Cyclop. VI p. 3110 (1917)—NAKAI, Veget. Diamond Mts p. 173 no. 276 (1918).—MORI, Enum. Corean Pl. p. 165 (1922)—REHDER in Journ. Arnold Arboret. V p. 147 (1924)—MAKINO & NEMOTO, Fl. Jap. p. 942 (1925)—REHDER, Manual p. 260 (1927)—MAKINO & NEMOTO, Fl. Jap. ed. 2 p. 358 (1931)—NAKAI in Koryô Shikenrin Ippan p. 35 no. 288 (1932).

Syn. *Kadsura chinensis* TURCZANINOV in Bull. Soc. Imp. Natural. Mosc. VII p. 149 (1837).

Sphærostemma japonica SIEBOLD & ZUCCARINI in Abh. Akad. Wiss. Muench. IV Abt. 2 p. 188 (1845)—A. GRAY in Narratives Capt. PERRY's Exped. II appendix p. 380 (1857).

Maximowiczia chinensis RUPRECHT in Maxim. Amur. no. 1 ex MAXIMOWICZ in Bull. Phys.-Math. Acad. Sci. St. Pétersb. XV p. 259 in textu (1857)—MAXIMOWICZ, Prim. Fl. Amur. p. 31 (1859).

Maximowiczia amurensis RUPRECHT in Max. Amur. n. 1 ex MAXIMOWICZ in Mél. Biol. II p. 515 (1857).

Sphærostema japonicum A. GRAY in Mem. Americ. Acad. Arts & Sci. new. ser. VI p. 380 (1859).

Schizandra chinensis (*Kadsura*) TURCZ. apud KOCH, Dendrol. I pt 1 p. 386 (1868)—DIPPEL, Handb. Laubholzk. III p. 156 fig. 82 (1893).

Schizandra japonica A. GRAY apud HANCE in TRIMEN, Journ. Bot. XVIII p. 258 (1880).

Dioicus. Caulis volubilis, cortice fusco. Folia in ramis elongatis remote alterna in ramis abbreviatis conferta. Petioli virides vel erubescentes 15–35 mm. longi. Lamina foliorum elliptica vel late elliptica vel late obovata vel fere orbiculata basi mucronata vel acuta vel attenuata apice acuminata vel mucronato-acuminata margine grosse glanduloso-dentata supra viridia luciduscula infra pallida supra venas multicellulato-hirtella vel papillosa, sed in varietate glaberrima 20–123 mm. longa 11–92 mm. lata. Flores in basi innovationum ad squamas axillares. Pedunculi solitarii indivisi 14–28 mm. longi glaberrimi graciles sed florum fæmineorum mas-

culis robustiores. Flores masculi: tepala flava 6–8 oblonga pellucido-punctulata 5–10 mm. longa 2,5–4 mm. lata; stama 5, 2,5–3 mm. longa in columnā connata, connectivum magnum, loculi antherarum 2 connectivo laterali longitudine adnati. Flores foeminei: tepala 6–9 oblonga vel elliptica 7–10 mm. longa 4–5 mm. lata flava; stama nulla; carpella ♂ capitato-imbricata 2-locularia; stigmata obliqua forma varia; discus post anthesin subito elongatus in fructu 25–82 mm. longus 2–3,5 mm. latus. Bacca rubra demum atro-sanguinea sphærica vel rotundato-obovata 6–12 mm. longa inedulis. Semina in quoque fructu 1–2 reniformia.

var. typica NAKAI.

Folia subtus supra venas hirtella.

Nom. Jap. *Chōsen-gomishi*.

Nom. Jap. *Ô-mi-dja*.

Hab.

Kanhoku: Taitōsuikoku (T. NAKAI no. 7056); Mt. Sôzan (TEI); Mt. Hichihôzan (C. KONDO no. 413); Shôzandô (TEI no. 516); Mt. Shayusan (TEI no. 1001).

Kannan: Inter San-yô et Kôkô (T. NAKAI no. 2019); Genzan (T. NAKAI); Shinkô Gensen men (T. ISHIDOYA no. 5541); Eikô Tomohô (TEI).

Heihoku: Neihen (H. IMAI no. 206); Kôgen (T. NAKAI no. 2020); Mt. Hakutôzan tractus Sosan (S. FUKUBARA no. 1092); Shôdjo Shinsômen (T. SAWADA); Mt. Yakusan tractus Neihen (T. ISHIDOYA no. 1528); Unzan Hokuchinmen (S. FUKUBARA no. 1914).

Heinan: Djônandô (T. MORI); Yôtoku (T. NAKAI no. 12341); Mt. Kenzanrei (T. ISHIDOYA no. 4285); Mt. Rôrinsan (K. OKAMOTO); Kaisen Kokusen (S. KOBAYASHI); Tokusen Taikyokumen (C. KONDO no. 98).

Kôgen: Makkiri (T. NAKAI no. 5447); Mt. Kongôsan (T. UCHIYAMA); ibidem (U. FAURIE no. 538); Mt. Taikisan (S. FUKUBARA); Mt. Godai-san (T. ISHIDOYA no. 6587); Mt. Setsugakusan (T. ISHIDOYA no. 6339).

Keiki: Mt. Hokkanzan (T. MORI no. 85); Kôryô (T. NAKAI no. 2023, 14530); Kanhokudo (S. KOBAYASHI); Mt. Kagakusan (T. SAWADA).

Zenhoku: Mt. Tokuyûzan (S. FUKUBARA).

Keihoku: Mt. Zitsugetsusan (T. SAWADA); Mt. Yûrei (T. ISHIDOYA no. 5567).

Zennan: Mt. Chiisan (T. NAKAI no. 107, 402); ibidem (T. ISHIDOYA);
Mt. Mutôsan (S. FUKUBARA).

Distr. China (Chili), Manshuria, Amur, Ussuri, Honshû, Yeso & Sachalin.

Schizandra chinensis var. **glabrata** NAKAI ex MORI, Enum. Corean
Pl. p. 166 (1922), nom. nud.

Folia subtus ab initio glaberrima.

Nom. Jap. *Inu-chôsen-gomishi*.

Nom. Kor. *Ô-mi-dja*.

Hab.

Kannan: Kankô Tokusanmen (KIN SEI KWAN).

Heihoku: Mt. Hakuhekizan (T. ISHIDOYA, typus in Herb. Imp. Univ.
Tokyo).

Kôkai: Mt. Kugetsusan (TEI).

Keiki: Mt. Kôkyôzan, Suigen (H. UEKI no. 523); Shikô Kangakusan
(T. ISHIDOYA no. 3185).

第 2 屬 さねかづら 屬

莖ハ木質纏卷ス、葉ハ有柄互生有鋸齒又ハ全緣常綠又ハ半常綠、花ハ
兩全又ハ多性若枝ノ下方ニ腋生ス。1 花梗ニ1 乃至數個ノ花ヲ附ク、萼
ハ2-4個落ツ、花瓣ハ6-∞相重ナル。雄蕊ハ數列ニ並ビ單體、藥間ハ
幅頗ル廣ク側方ニ藥室附着ス、心皮ハ多數頭狀ニ集合シ各室ニ2-3個ノ
卵子ヲ有ス、花托ハ果實ニアリテハ多肉トナリ頭狀、果實ハ漿果球形又
ハ卵形、種子ハ漿質ノ果肉ニ包マル。

東亞特產ノ屬ニシテ9種アリ、其中1種ハ朝鮮ニモアリ。

3. さねかづら 一名 びなんかづら

プスン。 プスミ (濟州島)

(第 XXI 圖)

莖ハ纏卷シ太キ部分ハ直徑15mm.ニ達ス。若枝ハ始メ光澤アリ後褐
色トナリ多數ノ皮目ノ點アリ、葉ハ1年生又ハ2年生平滑、長橢圓形又
ハ倒卵形又ハ橢圓形長サ31-104mm.幅12-50mm.表面ハ光澤アリ裏面
ハ淡ク光澤ナク油點アリ、先端^端ハ細マリテ最先端ニ至リテ丸シ基ハ或ハ
トガリ或ハ丸ク縁ハ全緣又ハ大形ノ腺狀鋸齒アリ。葉柄ハ長サ7-20
mm.花ハ若枝ノ基部ニ腋生シ1個宛出ヅ、兩全又ハ單性、花梗ハ長サ

17-62 mm. 鱗片狀ノ小サキ苞ヲ 2-3 個宛ツク、萼ハ通例 3 (稀ニ 2-4) 個花後落チ幅廣シ、花瓣ハ通例 6 (或ハ 7-8) 個淡黃色、雄蕊ハ 40-50 個頭狀ニ集マリテ單體トナル。花絲ハ基部相寄リテ倒圓錐形ノ筒ヲ作ル、薬間ハ幅廣シ、薬ハ 2 室、薬室ハ薬間ノ側方ニツク、心皮ハ中央ニ頭狀ニ集合シ柱頭ハ紅色ナリ、花托ハ成熟スレバ多肉トナリ球形ヲナシ其表面ニ紅色ノ漿果ヲ附ク。

濟州島、全南 (大黒山島、巨文島、佐治島、珍島、莞島、烏島、月出山、大菴山、萬德山) 慶南 (巨濟島) ニ產ス。

(分布) 本島、四國、九州、對馬。

Gn. II. **Kadsura** KEMPFER ex JUSSIEU in Ann. Mus. Paris XVI p. 340 (1810)-DUNAL, Monogr. Anonac. p. 57 (1817)-A. P. DE CANDOLLE, Syst. I p. 465 (1818); Prodr. I p. 83 (1824)-G. DON, Gen. Hist. Dichl. Pl. I p. 101 (1831)-BLUME, Fl. Jav. III p. 7 (1836)-ENDLICHER, Gen. Pl. II p. 835 (1840)-SPACH, Hist. Vég. VIII p. 8 (1839) in Ann. Sci. Nat. IV p. 78 (1857)-SIEBOLD & ZUCCARINI, Fl. Jap. I p. 40 t. 17 (1835)-MIQUEL, Fl. Ind. Bat. I pt. 2 p. 18 (1859)-MEISSNER, Pl. Vasc. Gen. I p. 5 (1836); II p. 7 (1843)-BENTHAM & HOOKER, Gen. Pl. I pt. 1 p. 20 (1862)-PRANTL in ENGLER & PRANTL, Nat. Pflanzenfam. III Abt. 2, p. 18 (1888)-DIPPEL, Handb. Laubholzk. III p. 157 (1893)-KOEHN, Deutsch. Dendrol. p. 149 (1893)-SCHNEIDER, Illus. Handb. I p. 341 (1905)-KOORDERS, Excursionsfl. Java II p. 242 (1912).-BAILEY, Stand. Cyclop. Hort. III p. 1731 (1915).

Syn. *Cadsura* JUSSIEU apud SPRENGEL, Syst. Veget. II p. 642 (1825).

Sarcocarpon BLUME, Bijdr. p. 21 (1825)-MEISSNER, l. c. p. 7.

Sarcocarpum BLUME apud G. DON, l. c. p. 101.

Caulis lignosus volubilis. Folia petiolata alterna serrata vel integra sempervirentia vel partim decidua. Flores hermaphroditici vel polygamodioici in axillis innovationum axillares. Pedunculi 1-multiflori. Sepala 2-4 decidua. Petala 6-∞ imbricata. Stamina multiserialia monadelpha, connectivo latissimo loculis antherarum adnatis. Carpella ∞ capitata, 2-3 ovulata. Torus in fructu succosus globosus facie polygono-areosus. Fructus baccatus globosus vel obovoideus. Semen in pulpa immersa.

Species 9 in Asia trop. et orient. indigenæ, quarum unica in Korea australi nec non in Quelpært incola.

3. **Kadsura japonica** (LINNÆUS) DUNAL

(*Tabula nostra XXI*)

Kadsura japonica (LINNÆUS) DUNAL, Monogr. Fam. Anonac. p. 57 (1871)—A. P. DE CANDOLLE, Syst. Veg. I p. 466 (1818); Prodr. I p. 83 (1824)—G. DON, Gen. Hist. Dichl. Pl. I p. 102 (1831)—SIEBOLD & ZUCCARINI, Fl. Jap. I p. 40 t. 17 (1835)—SPACH, Hist. Véget. VIII p. 9 (1839)—WALPERS, Repert. I p. 92 (1842)—SIEBOLD & ZUCCARINI in Abh. Muench. Akad. IV Abt. 2 p. 188 (1845)—KOCH, Dendrol. I pt. 1 p. 387 (1868)—FRANCHET & SAVATIER, Enum. Pl. Jap. I p. 18 (1874)—MATSUMURA, Nippon Shokubutsu Meii p. 103 (1884); Cat. Pl. Herb. Imp. Univ. p. 8 (1886)—NICHOLSON, Illus. Dict. Gard. II p. 214 (1888)—PRANTL in ENGLER & PRANTL, Nat. Pflanzenfam. III Abt. 2 p. 18 (1891)—KOEHNE, Deutsch. Dendrol. p. 149 fig. 28 j—q. (1893)—DIPPEL, Handb. Laubholzk. III p. 157 (1893)—MATSUMURA, Shokubutsu Meii p. 157 (1895)—BAILEY, Cyclop. Americ. Hort. II p. 853 (1901)—BEISSNER, SCHELLE & ZABEL, Handb. Laubholzbenn. p. 102 (1903)—SCHNEIDER, Illus. Handb. Laubholzk. I p. 341 fig. 218 c. 219 k-μ (1905)—MATSUMURA, Ind. Pl. Jap. II pt. 2 p. 93 (1912)—NAKAI, Veget. Isl. Quelpaert p. 47 no. 641 (1914); Chosen Shokubutsu I p. 81 (1914).—BEAN, Trees & Shrubs I p. 678 (1914)—BAILEY, Stand. Cyclop. III p. 1731 (1915)—MORI, Enum. Corean Pl. p. 165 (1922)—REHDER, Manual p. 260 (1927)—MAKINO & NEMOTO, Fl. Jap. p. 938 (1925); ed. 2 p. 334 (1931).—HANDEL-MAZZETTI in Beihefte Bot. Centralb. XLVIII Abt. 2 p. 301 (1931).

Syn. *Futo Kadsura*, *sive Sane Kadsura*, *aliis Orenj Kadsura* KÆMPFER,
Amoenit. Exot. p. 476 fig. in p. 478 (1712).

Uvaria japonica LINNÆUS, Sp. Pl. ed. 1 p. 536 (1753); ed. 2, I p. 756 (1762); Syst. Nat. ed. 13 p. 374 (1770)—HOUTTUYN, Nat. Hist. III p. 81 (1774); Pflanzensyst. II p. 87 (1777)—LAMARCK, Encyclop. I p. 597 (1783)—THUNBERG, in Nova Acta Reg. Soc. Upsal. IV p. 32 (1783); Fl. Jap. p. 237 (1784)—WILLDENOW, Sp. Pl. II pt. 2 p. 1263 (1799).—PERSOON, Syn. Pl. II pt. 1 p. 94 (1806).

Uvaria japonica MURRAY, Syst. Veget. ed. 13 p. 423 (1774); ed. 14 p. 423 (1784).

Cadsura japonica SPRENGEL, Syst. Veget. II p. 642 (1825).

Caulis volubilis uspue 15 mm. latus. Rami hornotini primo lucidi rubro-virides demum fuscati cum lenticellis minutis punctulati. Folia annua vel biennia glaberrima oblonga vel obovata vel elliptica 31–104 mm. longa 12–15 mm. lata supra nitida infra pallida pellucido-punctulata vulgo plus minus falcata apice acuminato-obtusiuscula basi acuta vel obtusa vel attenuata margine integerrima vel grosse glanduloso-dentata, petioli 7–20 mm. longi. Flores in parte inferiore innovationum axillares solitarii hermaphroditi vel monœcici. Pedunculi basi squamis multis imbricatis obtecti 17–62 mm. longi cum bracteis squamatis parvis 2–3. Sepala 3 (2–4) post anthesin decidua chartacea dilatata. Petala 6(7–8) flava. Stamina 40–50 multiseriatim capitato-connata. Filamenta basi tubum obconicum formantia. Connectivum latissimum. Antheræ laterali affixæ longitudine biloculares. Carpella in medio capitato-imbricata. Stigmata rubescens. Discus in maturitate globosus polygono-areolatus, in medio areæ bacca obovato-sphærica rubra sita. Semina nitida reniformia 5 mm. longa.

Nom. Jap. *Sane-Kudsura*, *Binan Kadsura*.

Nom. Quelpærtense : *Pusun*, *Pusumi*.

Hab.

Quelpært: in dumosis (U. FAURIE no. 1679, 1680); in silvis (E. TAQUET no. 165); in silvis Hongno (E. TAQUET no. 2592); pede montis Hallasan (T. ISHIDOYA no. 261); Saishû (T. NAKAI no. 4945); Mt. Porioron (T. NAKAI no. 4947); Ryûtanri (T. NAKAI no. 861).

Zennan: Mt. Mongansan insulæ Daikokuzantô (T. ISHIDOYA et TEI no. 3476); Insula Nishidjima (T. NAKAI no. 11192); Sajitô (T. NAKAI no. 9675); Mt. Sensatsuzan insulæ Chitô (T. NAKAI no. 9676); Insula Wangto (T. NAKAI no. 565); ibidem (T. ISHIDOYA no. 1523, 1524); Mt. Gesshutsuzan (TEI); Mt. Taitonzan (S. FUKUBARA); Mt. Mantokusan (T. SAWADA); Insula Chôtô (T. NAKAI no. 9675).

Keinan: Gakenri insula Kyosaitô (T. NAKAI no. 11193);

Distr. Hondo, Shikoku, Kiusiu, Tsusima.

第3屬 しきみ属

小喬木又ハ灌木、常綠、香氣アリ、芽ニハ鱗片アリ、葉ハ互生、有柄、托葉ナシ。花ハ腋生有柄、萼片ハ3–6個相重ナリ、花瓣ハ12–15個、雄

蓋ハ短ク數多シ、薬室ハ薬間ノ側方ニツク、心皮ニハ唯1個ノ卵子アリ、種子ハ光澤ニ富ム。

日本、支那、臺灣、交趾支那、東印度ニ亘リ 11種アリ、其中1種ハ朝鮮ニモ自生ス。

4. し き み

パルゲック（濟州島）、チョールクブリ（莞島）

(第 XXII 圖)

小喬木高サ 4 米突ニ達シ分岐多シ（内地ニアリテハ一層大キクナル）、葉ハ互生2年生長橢圓形又ハ倒披針形表面ハ綠色光澤ニ富ミ裏面ハ淡綠色光澤ナシ、先端ハ次第ニ細マリ最先端ニ至リテ丸シ基脚ハ長サ 6-10 mm ノ葉柄ニ向ヒテガル朝鮮產ノ標本ニテハ長サ 38-91 mm. 幅 12-33 mm. アリ、花ハ前年ノ葉ノ葉腋ニ生ジ春開キ蕾ニテハ球形ナリ、有柄又ハ殆ンド無柄、花梗ニハ多數ノ早落性ノ苞アリ、萼片ハ 6 個外方ノ苞ヨリ漸次移行ス、花瓣ハ 12 個 3 列披針形淡黃色長サ 10-12 mm. 雄蕊ハ 18-21 個 6-7 列ニ並ズ、花絲ハ幅廣ク短シ、薬間モ廣ク薬室ハ其側方ニ附着ス、心皮ハ 6-9 個、蓇葖ハ放射狀ニ排列ス、種子ハ光澤ニ富ミ褐色長サ 6-7 mm.

濟州島、珍島、莞島ニ產ス。

(分布) 本島、四國、九州。

Magnoliaceæ Trib. II **Winteræ** R. BROWN in litt. ex A. P. DE CANDOLLE, Syst. I p. 548 (1818)-MEISSNER, Pl. Vasc. Gen. I p. 3 (1836); II p. 5 (1843)-A. GRAY, Gen. I p. 54 (1849)-BENTHAM & HOOKER, Gen. Pl. I pt. I p. 17 (1862)-EICHLER, Blütendiagr. II p. 150 (1875).

Syn. **Magnoliaceæ** Trib. I **Illicieæ** A. P. DE CANDOLLE, Prodr. I p. 77 (1824)-G. Don, Gen. Hist. Dichl. Pl. I p. 78 (1831)-ENDLICHER, Gen. Pl. II p. 838 (1840)-PRANTL in ENGLER & PRANTL, Nat. Pflanzenfam. III Abt. 2 p. 18 (1888).

Magnoliaceæ B. *Illicia* BARTLING, Ord. Nat. Pl. p. 249 (1830).

Winteraceæ LINDLEY, Nat. Syst. Bot. p. 17 (1836)-LOUDON, Arb. & Frut. Brit. I p. 256 (1838).

Magnoliaceæ Sect. *Illicineæ* SPACH, Hist. Véget. VII p. 433, 439 (1839).

Magnoliaceæ Unterfam. *Illicicæ* DIPPEL, Handb. Laubholzk. III
p. 157 (1893).

Arbores vel frutices erecti. Gemmae squamis imbricatis obtectæ. Folia biennia exstipullata. Carpella simplicia vel stellato-verticillata, dehiscentia. Testa seminum crustacea nitida.

Genera 3, quorum unicum *Illicium* in Korea indigenum.

Gn. III. **Illicium** LINNÆUS, Syst. Nat. ed. X. II p. 1050 (1759); ed. X reform. II p. 1050 (1760); Gen. Pl. ed. 6 p. 244 no. 611 (1764); ed. nov. p. 244 no. 611 (1767); Syst. Nat. ed. 13. p. 335 (1770)—LAMARCK, Encyclop. I p. 351 (1783)—VITMAN, Summa Pl. III p. 336 (1789)—JUSSIEU, Gen. Pl. p. 280 (1789)—NECKER, Elem. Bot. II p. 287 (1790)—GMELIN, Syst. Nat. II pt. 1. p. 867 (1791)—VENTENAT, Tab. Règn. Vég. III p. 70 (1799)—J. ST. HILAIRE, Exposit. II p. 75 (1805)—PERSOON Syn. Pl. II p. 93 (1806).—A.P. DE CANDOLLE, Syst. p. 440 (1818); Prodr. I p. 70 (1824)—G. DON, Gen. Hist. Dichl. Pl. I p. 78 (1831)—MEISSNER, Pl. Vasc. Gen. I p. 3 (1836); II p. 5 (1843).—LOUDON, Arb. & Frut. Brit. I p. 256 (1838)—SPACH, Hist. Véget. VII p. 439 (1839)—ENDLICHER, Gen. Pl. II p. 839 (1840)—BENTHAM & HOOKER, Gen. Pl. I pt. 1 p. 18 (1862)—PRANTL in ENGLER & PRANTL, Nat. Pflanzenfam. III Abt. 2 p. 18 (1888).—DIPPEL, Handb. III p. 157 (1893).—KORDERS, Excursionsfl. Java II p. 244 (1912).

Syn. *Skimmi* [KÆMPFER, Amoenit. Exot. p. 880 tab. in p. 881 (1712)]—ADANSON, Fam. Pl. II. p. 364 (1763).

Badianifera LINNÆUS, Materia Medica p. 180 (1749).

Arbores vel frutices sempervirentes aromatici. Gemmae squamis imbricatis. Folia alterna petiolata exstipullata. Flores axillares plus minus pedunculati. Sepala 3 vel 6 imbricata. Petala 12–15 imbricata. Stamina brevia numerosa, antheris lateralibus. Carpella stellata 1-ovulata, Semina nitida.

Species 11 in Japonia, Korea, China, Formosa, Indo-China, India boreali incolæ, quarum unica etiam in Korea australi spontanea.

4. **Illicium anisatum** LINNÆUS.

(Tabula nostra XXII)

Illicium anisatum LINNÆUS, Syst. Nat. ed. 10 pt. 2 p. 1050 (1759), pro

omnino; Sp. Pl. ed. 2 A p. 664 (1762), excl. pl. Chinensem; Syst. Nat. ed. 13 III p. 335 (1770), pro parte—HOUTTUYN, Nat. Hist. II p. 520 (1774)—MURRAY, Syst. Veg. ed. 13 p. 422 (1774), excl. syn. *Anisum stellatum*—HOUTTUYN, Pflanzensyst. II p. 64 (1777), excl. Pl. Sinensem et syn. *Anisum stellatum*, *A. peregrinum*, *A. philippinarum insularum* etc.—LAMARCK, Encyclop. I p. 351 (1783)—MURRAY, Syst. Veg. ed. 14 p. 507 (1784), excl. syn. *A. stellatum*—THUNEBERG, Fl. Jap. p. 235 (1784)—GERTNER, Fruct. & Sem. Pl. I p. 338 t. LXIX fig. 6 (1788), excl. syn. *Zingi*—GMELIN, Syst. Nat. II pt. 1 p. 867 (1791)—LAMARCK, Illus. t. 493 (1791)—VITMAN, Summa Pl. II pt. 1 p. 867 (1791)—PERSOON, Syst. Veget. ed. 15 p. 543 (1797), excl. syn. *Anisum stellatum*.—WILDENOW, Sp. Pl. II pt. 2 p. 1254 (1799), excl. Pl. Chin. et syn. LOUREIRO—DU MONT DE COURSET, Bot. Cult. ed. 1. III p. 86 (1802)—Bosc in Nouv. Dict. Hist. Nat. II p. 470 (1803)—PERSOON, Syn. Pl. II pt. 1 p. 93 (1806), excl. pl. Chin.—A.P. DE CANDOLLE, Syst. Nat. Reg. Veg. I p. 441 (1818), excl. pl. Chin. & syn. *Anisum* & *Zingi*—STEUDEL, Nom. Bot. ed. 1 p. 429 (1821)—A. P. DE CANDOLLE, Prodri. I p. 77 (1824), excl. pl. Chin.—SPRENGEL, Syst. II p. 643 (1825), excl. pl. Chin.—G. DON, Gen. Hist. Dichl. Pl. I p. 79 (1831), excl. pl. Chin.—FORTUNE, Narrat. Journey China & Japan p. 46 (1863)—FRANCHET & SAVATIER, ENUM. Pl. Jap. I pt. 1 p. 15 (1874)—NICHOLSON, Illus. Dict. Gard. II p. 177 (1888), excl. pl. Chin.—YATABE, Nihon Shokubutsu Hen I p. 68 fig. 70 (1900).—BAILEY, Cyclop. American Hort. I p. 799 (1901).—SHIRASAWA, Icon. II Pl. 17 fig. 6–17 (1909).—NAKAI, Veget. Isl. Quelpaert p. 47 no. 640 (1914); Chosen Shokubutsu I p. 78 (1914).—BAILEY, Stand. Cyclop. Hort. III p. 1641 (1915)—MORI, ENUM. Corean Pl. p. 165 (1922)—MAKINO & NEMOTO, Fl. Jap. ed. 1 p. 938 (1925).

Syn. *Somo*, vulgo *Skimmi*, *Fanna Skimmi* & *Fana Shiba* etc. KÆMPFER, Amoenit. Exot. p. 880 fig. in p. 881 (1712).

Illicium religiosum SIEBOLD & ZUCCARINI, Fl. Jap. I p. 5 t. 1 (1835); in Ann. Sci. Nat. 2 sér. V p. 77 (1836)—SPACH, Hist. Véget. VII p. 440 (1839)—W. J. HOOKER in Bot. Mag. LIX t. 3965 (1843)—A. GRAY in Narratives Capt. PERRY's Exped. II appendix p. 307 (1857)—PRANTL in ENGLER & PRANTL, Nat. Pflanzenfam. III Abt. 2 p. 18 (1891)—DIPPEL, Handb. Laubholzk. III p. 158 fig. 83 (1893)—

YATABE, Nihon Shokubutsu Hen I p. 68 fig. 70 (1900)—BEISSNER,
SCHELLE & ZABEL, Handb. Laubholzenn. p. 102 (1903)—KO-
ORDERS, Exkurs. Fl. Java II p. 244 (1912)—BEAN, Trees & Shrubs
I p. 653 (1914)—NAKAI in Tokyo Bot. Mag. XXXVI p. 119 (1922)—
MAKINO & NEMOTO, Fl. Jap. ed. 2 p. 354 (1931).

Arborea usque 4 metralis alta ramosissima. Folia alterna biennia, oblonga vel oblanceolata supra nitida viridia infra opaca pallida apice attenuato-obtusa basi in petiole 6–10 mm. longum acuminata in specimini bus Koreanis 38–91 mm. longa 12–33 mm. lata. Flores in axillis foliorum annotinorum axillares verno patentes, in alabastro globosi pedunculati vel subsessiles, pedunculis bracteis multis imbricatis deciduis obtectis. Sepala 6 ex bracteis sensim transeuntia. Petala 12 triserialia ex sepala sensim transeuntia lanceolata flavidula patentia 10–22 mm. longa. Stamina 18–21, 6–7 serialia; filamenta dilatata brevia; connectivum bene evolutum; antherae laterali adnatae. Capella 6–7 conniventia. Follicula stellata. Semina nitida 6–7 mm. longa fusca.

Nom. Jap. *Shikimi*.

Nom. Kor. *Parugæk* (Quelpært), *Chôrukupuri* (Wangtô).

Hab.

Quelpært: secus torrentes Yelloi (U. FAURIE no. 166); in silvis Poptj-yongi (E. TAQUET no. 2594); in silvis secus torrentes Yelloi 400 m. (E. TAQUET no. 538); secus torrentes Mokatji 400 m. (E. TAQUET no. 539).

Zennan: Mt. Nyokisan insulæ Chinto (T. NAKAI no. 9674).

Illicium anisatum L. was described being based on the descriptions and figures in KÆMPFER: Amoenitatum Exoticarum. So, it is a book species as *Camellia japonica*, *Ficus pumila* etc. The name of *Illicium anisatum* should be referred to the Japanese species. LINNÆUS got a Chinese specimen after he published the tenth edition of *Systema Naturæ*. He thought that Chinese plant is conspecific with the Japanese and added China as the habitat of *Illicium anisatum* in the second edition of *Species Plantarum*. Many later botanists overlooked the tenth edition of *Systema Naturæ* and attributed the technical term of *Illicium anisatum* to the Chinese plant, and gave new name *Illicium religiosum* to the Japanese plant.

第4屬 もくれん（木蘭）屬

喬木又ハ灌木直立有毛香氣アリ、芽ノ鱗片ハ托葉狀ニ相應合シテ帽狀ニ芽ヲ包ム。葉ハ有柄、1年生又ハ2年生或ハ薄ク軟カク或ハ剛シ、花ハ頂生單一、無柄又ハ有柄、直立又ハ下垂ス、萼片ハ3個、花瓣ハ6-12個2-4列ニ並ビ大型ニシテ美シ、雄蕊ハ極メテ多數ニシテ多列ニ並ビ薬ハ内向又ハ側開、薬間ハヨク發達ス、心皮ハ多數長橢圓形又ハ圓錐狀ニ相重ナリ各2個ノ卵子ヲ有ス、花柱ハ或ハナク或ハ短シ、果實ハ成熟スレバ背面ニ於テ裂開シ中ヨリ朱色又ハ紅朱色ノ種子ヲ出ス。外種皮ハ肉質美シク内種皮ハ堅シ、胚乳多シ。

亞細亞ノ東部又ハ熱帶地方、北米ノ南部墨士哥ニ約25種ヲ產ス、朝鮮ニハ其中2種ノ自生アリ尙ホ1種ハ古來栽培ス。其區別左ノ如シ。

灌木、枝ハ擴ガル、花ハ若枝ノ先端ニツキ長キ花梗ヲ具ヘ下向ス。 1	雄蕊ハ内向、果實ハ相重ナリテ集團ス。.....おほやまれんげ
1	喬木直立ス、花ハ古枝ノ先又ハ極メテ短カキ若枝ノ先ニ出デ無柄又ハ極メテ短カキ花梗ヲツケテ直立ス。雄蕊ハ側開。.....2
	2	花ハ葉ニ先チテ出デ白シ、果實ハ長キ屈曲セル果托上ニ連珠狀ニツク。 .....こぶし
2	花ハ葉ト共ニ出デ紫色ナリ。果實ハ相重ナリテ生ズ。..しもくれん

5. おほやまれんげ

ハンバルコルナム(全南)、ハンパクコツナム(朝鮮)

(第 XXIII 圖)

灌木高サ2-6m. 基ヨリ簇生シテ開出ス。皮ハ灰褐色、芽ニハ1個ノ鱗片アリ、1年生ノ枝ハ基部ハ絹毛アレドモ上方程無毛トナル、葉ハ1年生葉柄ハ長サ6-57mm. 絹毛アリ、葉身ハ倒卵橢圓形又ハ倒卵形長サ29-162mm. 幅22-102mm. 表面ハ綠色無毛裏面ハ淡白キカ又ハ白粉ヲ被リ葉脈上ニ絹毛アリ、花ハ1年生ノ枝ノ先端ニツキ下垂シテ開キ長サ40-70mm. ノ花梗ヲ有ス。花梗ニ絹毛アリ、萼片ハ3個橢圓形ニシテ内凹白色又ハ外側ニ紫色ヲ帶ブ、花瓣ハ6個白色倒卵形内凹長サ4-6mm. 幅25-35mm. 雄蕊ハ多數相重ナリ薬間ハ帶紅紫色又ハ黒紅色、薬ハ内開、心皮ハ長橢圓形綠色卵形ニ相重ナル、花柱ハ内側ニテ柱頭トナル、花托ハ果實ニアリテハ木質トナル。

咸南ノ西部、平北、平南、江原、黃海、京畿、忠北、忠南、慶北、慶南、

全北、全南、濟州島ニ産ス。

分布、本島ノ中部西部、四國、九州、支那(山東)。

一種葉ニ白キ美シキ斑アルモノアリ、之ヲ斑入おほやまれんげト謂フ。智異山彙七佛主山ニテ著者自ラ採レリ。

6. こぶし

サインカンナム (濟州島)

(第 XXIV 圖)

喬木、樹膚ハ灰色、芽ハ長橢圓形始メ毛アレドモ後無毛トナル。葉ハ1年生、葉柄ハ長サ 5-25 mm. 始メ微毛アレドモ後無毛トナリ表面ニ溝アリ、葉身ハ倒卵形又ハ長橢圓形長サ 42-147 mm. 幅 22-79 mm. 表面ハ綠色短カキ毛散生スレドモ早ク之ヲ失フ、裏面ハ微毛アレドモ間モナク無毛トナル緣ハ全緣基脚ハ楔形先端ハ急尖、側脈ハ兩側ニ 9-12 本宛アリ、葉ハ始メ軟ケレドモ後ヤ、厚ク固クナル、花ハ前年ノ小枝ノ先ニ出デ葉ニ先チテ開キ始メ 2 個ノ鱗片ニテ被ハル、萼片ハ 3 個外ニ卷キ長サ 10-15 mm. 幅 2-4 mm. 花瓣ハ 6 個白色倒卵長橢圓形長サ 45-76 mm. 幅 23-32 mm. 厚シ、雄蕊ハ多數花絲ハ長サ 1-1.5 mm. 药ハ側方ニツキ薬間ハ抽出ス、花柱ハ長サ 1.5-2 mm. 内面ハ粗糙ニテ柱頭トナル、心皮ハ多數相集マリテ長橢圓形ヲナス。花托ハ果實ニアリテハ伸長シ概ネ屈曲シ果實ハ連珠狀ニツク。

濟州島漢拏山ノ樹林ニ生ジモトハ相當ノ大木アリシモ現時ハ殆ンドナシ。

(分布) 北海道、本島、四國、九州。

7. しもくれん

モクニヨン (朝鮮)

(第 XXV 圖)

喬木、枝ハ黒褐色、芽ハ長橢圓形微毛アル 2 個ノ鱗片ニテ包マル、葉ハ1年生、葉柄ニハ微毛アルモ後無毛トナリ長サ 7-10 mm. 葉身ハ倒卵形長サ 33-174 mm. 幅 14-77 mm. 始メ短カキ微毛アレドモ早ク無毛トナル、花ハ極メテ短カキ若枝ノ先ニ出デ殆ンド無柄、萼ハ綠紫色外ニ卷キ又ハ横ニ展開シ長サ 8-92 mm. 幅 2-9 mm. 花瓣ハ立チ大キク美シク長サ 50-125 mm. 幅 15-46 mm. 外側ハ濃紫色内側ハ淡紫色ナリ、雄蕊ハ

多數相重ナリテ出デ薔ハ側ニツク。

朝鮮ニハ古ク支那ヨリ輸入シテ栽植スレドモ自生ナシ。

(分布) 支那(江蘇、四川、湖北)。

• **Magnoliaceæ** Trib. 3. **Magnolieæ** A. P. DE CANDOLLE, Prodr. I p. 79 (1824)–G. DON, Gen. Hist. Dichl. Pl. I p. 80 (1831)–ENDLICHER, Gen. Pl. II p. 837 (1840)–MEISSNER, Pl. Vasc. Gen. I p. 3 (1736); II p. 5 (1843)–A. GRAY, Gen. I. p. 54 (1849)–MIQUEL, Fl. Ind. Bat. I pt. 2 p. 13 (1859)–BENTHAM & HOOKER, Gen. Pl. I pt. 1 p. 17 (1862)–EICHLER, Blütendiagr. II p. 148 (1875)–PRANTL in ENGLER & PRANTL, Nat. Pflanzenfam. III Abt. 2 p. 16 (1888).

Syn. *Magnoliaceæ* & *Magnoliae* BARTLING, Ord. Nat. Pl. p. 249 (1830).

Magnoliaceæ Sect. *Magnolineæ* SPACH, Hist. Végét. VII p. 433, 446 (1839).

Arbores vel frutices erecti. Gemmæ squamis calypriformibus 1–2 obtectæ. Folia annua vel biennia cum stipulis caducis. Flores hermafroditi. Carpella multiserialia dehiscentia vel indehiscentia. Exocarpium carnosum. Albumen copiosum.

Genera 4 quorum unicum *Magnolia* in Korea indigenum.

Gn. IV. **Magnolia** PLUMIER, Nov. Pl. Gen. Amer. p. 38. t. 7. (1703)–LINNÆUS, Reg. Veg. sub. IV (1735); Gen. Pl. ed. 1 p. 162 n. 456 (1737); Hort. Cliffort. p. 222 (1737); Gen. Pl. ed. 2 p. 195 no. 546 (1743); ed. 5 p. 140 no. 610 (1754); ed. 6 p. 278 no. 690 (1764)–ADANSON, Fam. Pl. II p. 364 (1763)–GERTNER, Fruct. Sem. Pl. I p. 343 Tab. 70 (1788),–VITMAN, Summa Pl. III p. 337 (1789)–JUSSIEU, Gen. Pl. p. 281 (1789)–NECKER, Elem. Bot. II p. 287 (1790)–GMELIN, Syst. Nat. I pt. 1 p. 869 (1791)–VENTENAT, Tab. Règn. Vég. III p. 72 (1899)–BLUME, Besch. Gew. p. 140 (1822)–PERSOON, Syn. Pl. II pt. 1 p. 63 (1806)–J. ST. HILAIRE, Exposit. Fam. Nat. II p. 75 (1805)–A. P. DE CANDOLLE, Syst. I p. 449 (1818), pro parte; Prodr. I p. 79 (1824), pro parte –G. DON, Gen. Hist. Dichl. Pl. I p. 82 (1831)–MEISSNER, Pl. Vasc. Gen. I p. 3 (1836); II p. 7 (1843).–SPACH, Hist. Vég. II p. 468 (1839)–A. GRAY, Gen. I p. 59 Pl. 23–24 (1849)–BENTHAM & HOOKER, Gen. Pl. I pt. 1 p. 18 (1862)–LAUHE, Deutsch. Dendrol. p. 376 (1880)–ENDLICHER, Gen. Pl. II p. 837 (1840)–PRANTL in ENGLER & PRANTL,

Nat. Pflanzenfam. III Abt. 2 p. 16 (1888)—DIPPEL, Handb. Laubholzk. III p. 141 (1893).

Syn. *Gwillimia* ROTTLER ex A.P. DE CANDOLLE, Syst. I p. 455 (1818).

Yulania SPACH, Hist. Véget. VII p. 462 (1839).

Buergeria SIEBOLD & ZUCCARINI in Abh. Akad. Wiss. Muench. IV Abt. 2. p. 186 (1845).

Arbores vel frutices erecti pilosi aromatici. Gemmæ squamis stipulari-conduplicatis vel calyptiformibus 1–2 obtectæ. Folia petiolata annua vel biennia herbacea, chartacea vel coriacea. Flores terminales solitarii, sessiles vel pedunculati, erecti vel cernui. Sepala 3. Petala 6–12, 2–4 serialia speciosa, imbricata. Stamina ∞ multiseritalia antheris introrsis vel later-alibus, connectivo bene evoluto. Carpella ∞ aggregatim vel imbricatim conica vel oblonga 2-ovulata. Styli O vel breves. Carpella matura dorsali-dehiscentia. Semina funiculis filiformibus pendula, testa exteriore carnosa, interiore crustacea. Albumen copiosum oleosum.

Species circ. 25 in Asia orient. & trop., regio australi Americæ sept. et Mexico incolæ. In Korea 2 spontaneæ et unica culta, quæ in sectionibus duabus distinguendæ.

Magnolia Sect. **Gwillimia** A. P. DE CANDOLLE, Reg. Veg. Syst. Nat. I p. 455 (1818), pro parte.

Syn. *Magnolia* Sect. II. *Gwillimia* ROTTLER apud A. P. DE CANDOLLE, Prodr. I p. 81 (1824), pro parte—G. DON, Gen. Hist. Dichl. Pl. I p. 83 (1831), pro parte—LOUDON, Arb. & Frutic. Brit. I p. 278 (1838), pro omnino.

Yulania SPACH, Hist. Véget. VII p. 462 (1839).

Folia annua. Squamæ gemmarum 2. Flores in apice rami annotini vel hornotini brevis terminales sessiles vel subsessiles, præcoces vel subcaetanei. Antheræ laterales. Carpella in fructu imbricata vel interrupta.

Flores præcoces candidi. Carpella cum toro elongato submoniliforme disposita. *M. kobus*
Flores subcaetanei atro-purpurei. Carpella imbricata.
. *M. liliiflora* (Planta culta).

Magnolia Sect. **Oyama** NAKAI, Sect. nov.

Frutex. Folia annua. Squama gemmarum 1. Flores in apice in-

novationum terminales longe pedunculati cernui, sed fructus elongatione gemmæ terminalis lateralis. Antheræ introrsæ. Carpella imbricata.

Huc ducenda *M. parviflora*.

5. ***Magnolia parviflora* SIEBOLD & ZUCCARINI.**

(*Tabula nostra XXIII*)

Magnolia parviflora SIEBOLD & ZUCCARINI⁽¹⁾ in Abh. Acad. Wiss. Muench. IV Abt. 2 p. 187 (1845)—MIQUEL in Ann. Mus. Bot. Lugd. Bat. II p. 258 (1866); Prol. Fl. Jap. p. 146 (1866)—MAXIMOWICZ in Bull. Acad. Sci. St. Petersb. XVII p. 418 (1872); in Mél. Biol. VIII p. 509 (1872)—FRANCHET & SAVATIER, Enum. Pl. Jap. I pt. 1. p. 16 (1874)—MATSUMURA, Nippon Shokubutsu meii p. 118 (1884); Cat. Pl. Herb. Imp. Univ. p. 8 (1886)—MAKINO in Tokyo Bot. Mag. II p. [251] (1888)—NICHOLSON, Illus. Dict. Gard. II p. 316 (1888)—DIPPEL, Handb. Laubholzk. III p. 153 (1893)—MATSUMURA, Shokubutsu Meii p. 181 (1895)—J. D. HOOKER in Bot. Mag. CXXI t. 7411 (1895)—YATABE, Nihon Shokubutsu Hen I p. 73 fig. 98 (1900)—BEISSNER, SCHELLE & ZABEL, Handb. Laubholzenn. p. 99 (1903)—GILG & LÖSNER in Beihefte Bot. Jahrb. XXXIV no. 75 p. 75 (1904)—SCHNEIDER, Illus. Handb. Laubholzk. I p. 331 fig. 209 g. (1905)—NAKAI in Tokyo Bot. Mag. XXII p. 77 (1908); Fl. Kor. I p. 38 (1909)—HENRY in ELWES & HENRY, Trees & Shrubs Great. Brit. & Irel. VI p. 1598 (1912)—REHDER & WILSON in SARGENT, Pl. Wils. I pt. 3 p. 406 (1913)—BEAN, Trees & Shrubs II p. 72 (1914)—NAKAI, Veget. Isl. Quelpaert p. 47 no. 642 (1914); Veget. Mt. Chirisan p. 33 no. 201 (1915)—REHDER in BAILEY, Stand. Cyclop. Hort. IV p. 1967 (1916).—NAKAI, Veget. Diamond Mts p. 173 no. 275 (1918)—LÖSNER in Beihefte Bot. Centralb. XXXVII Abt. 2. p. 124 (1920)—MILLAS, Magnolias p. 68, 191 cum phot. (1927)—REHDER, Manual Cult. Trees & Shrub. p. 255 (1927)—NAKAI in Kōryō Shikenrin Ippan p. 35 no. 287 (1932). Syn. *Oyama-renge* I. Ito, Zōho Chikinshō V fol. 10 verso fig. in folio 7 (1710).

Gyokulankwa vel *Oyama-renge* SHIMADA, Kwa-I, Arbores III fol.

(1) *Magnolia parviflora* BLUME, Bijdragen I p. 9 (1825) preceeds twenty five years to *Magnolia parviflora* S. & L., but the former is merely a synonym of *Michelia fuscata* (ANDREWS) BLUME and so the latter name is still useful according to the International Rules of Nomenclature.

8 cum Icon. (1765).

Oyama-renge IWASAKI, Honzo Dzufu LXXXII fol. 9–10 (1828).

Magnolia Sieboldii Koch, Hort. Dendrol. IV no. II (1853).

Magnolia Oyama KORT. in Rev. Hort. Belg. XXXI p. 258 (1905).

Magnolia verecunda KOIDZUMI in Tokyo Bot. Mag. XL p. 339 (1926)–MAKINO & NEMOTO, Fl. Jap. ed. 2 p. 357 (1931).

Frutex 2–6 m. altus e basi cæspitoso-diffusus. Cortex cinereo-fuscus. Gemmæ uniperulatæ. Rami hornotini basi sericei ad apicem glabrescentes. Folia annua ; petioli 6–57 mm. longi sericei, lamina obovato-elliptica vel obovata 29–162 mm. longa 22–102 mm. lata supra viridis glabra subtus albescens vel glaucina supra venas sericea. Flores in apice rami hornotini terminales nutantes ; pedunculi 40–70 mm. longi sericei ; sepala 3 elliptica concava alba vel extus purpurascens ; petala 6 alba obovata incurva 4–6 cm. longa 25–35 mm. lata. Stamina numerosa imbricata ; connectivum rubro-purpureum vel atro-rubrum ; antheræ introrsæ. Carpella oblonga viridia ovato-imbricata. Styli intus stigmatosi. Fructus lignosus.

Nom. Jap. *Oyama-renge*.

Nom. Kor. *Hanpak-kot-nam*, *Hanbal-ko-nam*.

Hab.

Kannan : Mt. Shûaizan (S. FUKUBARA) ; Mt. Shisuzan (TEI).

Heihoku : Mt. Hakuhekisan (T. ISHIDOYA no. 1522) ; Mt. Kongôsan, Gishû (T. ISHIDOYA no. 3212) ; Shôdjo Taisômen (T. ISHIDOYA no. 1519) ; Mt. Hakutôzan, Sosan (S. FUKUBARA no. 1090) ; Hekidô Shôseimen (T. SAWADA) ; Shôdjô Yûmen (T. SAWADA) ; Unzan (H. IMAI no. 163) ; inter Sakushû et Shôdjô (T. NAKAI no. 2021) ; Kôkai Kôseimen (T. NAKAI no. 2022).

Heinan : Yôtoku (T. NAKAI no. 12341) ; Mt. Kakatsurei (T. MORI) ; Mt. Rôrinsan (K. OKAMOTO) ; ibidem (IWASAKI) ; Neien Kôzanmen (T. ISHIDOYA no. 4287) ; Mt. Kenzanrei (J. ISHIDOYA no. 4286) ; Tokusen Taikyo-kumen (C. KONDÔ no. 96).

Kôkai : Mt. Kugetsusan (TEI) ; Mt. Chôdjusan (TEI) ; ibidem (R. K. SMITH no. 692) ; Insula Taiseitô (T. NAKAI no. 12806) ; Chôzankan (T. NAKAI no. 12807).

Kôgen : Rankoku (T. ISHIDOYA no. 1516); Mt. Kongosan (T. UCHIYAMA); ibidem (U. FAURIE no. 536); ibidem (T. NAKAI no. 5448); ibidem (T. ISHIDOYA no. 1520); ibidem (TEI); Shunsen (legitor ?); Mt. Godaisan (T. ISHIDOYA no. 6586); Mt. Taikisan (S. FUKUBARA); Mt. Chigakusan (TEI).

Keiki : Mt. Tenmasan (T. ASAKAWA); ibidem (T. ISHIDOYA no. 1517, 1518); Mt. Hokkanzan (T. NAKAI no. 7724, 7725); ibidem (T. ISHIDOYA no. 2606, 2607); Mt. Kangakusan (AN-KI-SHU); Mt. Kagakusan (T. SAWADA); Mt. Ryûmonzan (T. SAWADA).

Chûkoku : Mt. Zokurisan (S. FUKUBARA).

Chûnan : Mt. Keiryûzan (C. KONDÔ).

Keihoku : Mt. Kôsokurei, Hôka (T. ISHIDOYA no. 5566); Mt. Yurei (T. ISHIDOYA no. 5568); Mt. Zitsugetsusan (T. SAWADA); Mt. Chôrei (T. UCHIYAMA).

Zenhoku : Mt. Tokuyuzan (S. FUKUBARA).

Keinan : Mt. Kayasan (T. ISHIDOYA no. 5078); Mt. Kachisan (T. SAWADA).

Zennan : Mt. Taitonzen (T. NAKAI no. 9679); Mt. Chiisan (T. NAKAI no. 97); Mt. Nyokisan insulae Chintô (T. NAKAI no. 9677).

Quelpaert : in silvis Hallasan 600 m. (E. TAQUET no. 167, 541, 2596, 2599); in silvis Hallasan 1500 m. (T. ISHIDOYA no. 202, 1521).

Distr. Hondo media et occid., Shikoku, Kiusiu, China (Shantung).

Magnolia parviflora forma **variegata** NAKAI, nov. f.

Folia albo-variegata.

Nom. Jap. *Furi-Oyama-renge*.

Hab.

Keinan : Mt. Chiisan (T. NAKAI).

6. **Magnolia kobus** A. P. DE CANDOLLE.

(Tabula nostra XXIV)

Magnolia kobus A. P. DE CANDOLLE, Reg. Veg. Syst. Nat. I p. 456 (1818), confr. descript. Kämpferiana et BANKS Icon. tantum—STEUDEL, Nom. Bot. ed. I p. 501 (1821), excl. syn.—A. P. DE CANDOLLE, Prodr. I p. 81 (1824), confr. BANKS Icon.—G. DON. Hist. Dichl. Pl. 83 (1831), confr. BANKS Icon.

—MIQUEL in Ann. Mus. Bot. Lugd. Bat. II p. 258 (1866), excl. syn., Prol. p. 146 (1866), excl. syn.—KIRCHNER, Arb. Musc. p. 115 (1864)—MAXIMOWICZ. in Bull. Acad. Sci. St. Pétersb. XVII p. 417 (1872), pro parte; in Mél. Biol. VIII p. 507 (1872), pro parte—FRANCHET & SAVATIER, Enum. Pl. Jap. I pt. 1, p. 16 (1874), excl. syn. Kwa-wi etc.—MATSUMURA, Nippon Shokubutsumeii p. 118 (1884); Cat. Pl. Herb. Imp. Univ. p. 7 (1886); Shokubutsu Meii p. 181 (1895)—KÖHNHE, Deutsch. Dendrol. p. 145 (1893)—SHIRASAWA, Icon. I t. 59 fig. 1–12 (1900)—YATABE, Nihon Shokubutsu Hen I p. 71 fig. 73 (1900)—REHDER in BAILEY, Cyclop. American Hort. II p. 966 (1901)—GRÆBNER in Mitt. Deutsch. Dendrol. Gesells. XIV p. 36 (1905)—BEISSNER, SCHELLE & ZABEL, Handb. Laubholzenn. p. 98 (1908), excl. syn.—SCHNEIDER, Illus. Handb. Lauholzk. I p. 330 fig. 207 a–g, 209 c–d (1905)—FINET & GAGNEPAIN in Bull. Soc. Bot. France LII Mém. IV p. 38 (1905)—SARGENT, Trees & Shrubs I p. 57. Pl. 126 (1906)—MATSUMURA, Ind. Pl. Jap. II pt. 2 p. 95 (1912)—BEAN in Bot. Mag. CXXXVIII t. 8428 (1912)—HENRY in ELWES & HENRY, Trees & Shrubs Great Brit. & Ireland VI p. 1594 (1920)—REHDER & WILSON in SARGENT, Pl. Wils. I p. 408 (1913)—NAKAI, Chosen Shokubutsu I p. 79 (1914)—BEAN, Trees & Shrubs II p. 71 (1914)—REHDER in BAILEY, Stand. Cyclop. IV p. 1968 (1916)—GRÆBNER in Mitt. Deutsch. Dendrol. Gesells., no. 29 p. 73 (1920)—MAKINO & Nemoto, Fl. Jap. p. 939. (1925)—REHDER, Manual p. 256 (1927)—MILLAIS, Magnolias p. 64, 155 cum phot. (1927)—REHDER in Mitt. Deut. Dendrol. Gesells. no. 42 p. 41 (1930).
Syn. *Kobushi* KAIBARA, Yamato Honzo Kōmoku XII fol. II verso (1709).

—I. Ito, Zôho Chikinshô V fol. 10 (1710).

Sini & *Confusi*, *vulgo Kobus*, al. *Side Kobusi* KÆMPFER, Amœnit.

Exot. V p. 845 (1712), excl. *Side Kobushi*.

Magnolia glauca (non LINNÆUS) in THUNBERG in Nov. Acta Reg.

Soc. Sci. Upsal. IV p. 34 (1784), pro parte, excl. specimen.

Magnolia glauca $\alpha.$) *flore albo* THUNBERG, Fl. Jap. p. 236 (1784),
excl. specimen.⁽¹⁾

(1) A part of *Magnolia glauca* THUNB. is *Magnolia tomentosa* THUNB. pro parte or *Magnolia stellata* MAXIMOWICZ, the specimen of which is preserved in Uppsala University and which was figured by THUNBERG in his Icones under the name of *Magnolia tomentosa*. The other part of *Magnolia glauca* or *M. tomentosa* is, as his specimen proves, *Edgeworthia papyrifera* SIEB. & ZUCC.

Kobus BANKS, Icon. t. 42 (1791).

Magnolia gracilis (non SALISBURY) LOUDON, Arb. & Frut. Brit.

I p. 283 (1838)—NAKAI, Veget. Isl. Quelpaert p. 47 no. 642 (1914)

—MORI, Enum. Corean Pl. 165 (1922).

Yulania Kobus SPACH, Hist. Vég. VII p. 467 (1839).

Buergeria obovata SIEBOLD & ZUCCARINI in Abh. Acad. Wiss.

Muench. IV Abt. 2 p. 187 (1845), pro parte.

Talauma ? Sieboldii MIQUEL in Ann. Mus. Bot. Lugd. Bat. II p.

257 (1866), pro parte; Prol. p. 145 (1866), pro parte; Cat. Mus.

Bot. Lugd. Bat. p. 4 (1870), pro parte.

Magnolia Thurberi PARSONS⁽¹⁾ in Garden XIII p. 572 (1878), sine
descript.

Magnolia Thurberi Hort. ex Hand-List of Trees & Shrubs. Kew
Gard. I p. 17 (1894); ed. 2. p. 15 (1902), pro synynomio *M. Kobus*.

Magnolia kobushi MAYR, Fremdl. Wald. u. Parkbäume Eur. p.
484 fig. 207 (1906), excl. syn.

Magnolia præcocissima KOIDZUMI in Tokyo Bot. Mag. XLIII p.
386 (1929)—HONDA in HONDA & SAKISAKA, Syst. Pl. Jap. p. 199
fig. 123 (1930)—MAKINO & NEMOTO, Fl. Jap. ed. 2 p. 356 (1931).

Arbor. Cortex cinereus. Gemmæ oblongæ primo apice pilosæ demum
glabrescentes. Folia annua; petioli 5–25 mm. longi primo pilosi demum
glabrescentes supra canaliculati; lamina obovata vel oblonga 42–147 mm.
longa 22–79 mm. lata supra viridis adpresso sparse pilosella mox glabres-
cens infra pilosella mox glabrescens margine integerrima basi cuneata
apice mucronata, venis lateralibus utrinque 9–12, primo herbacea demum
chartacea. Flores in apice ramulorum annotinorum terminales solitarii
præcoce cum gemmis 2; sepalæ 3 angusta recurva 10–15 mm. longa 2–4

(1) As REINER gave the note in Mitteilungen der Deutschen Dendrologischen Ge-
sellschaft no. 42 p. 41 (1930), *Magnolia Kobus* of A. P. DE CANDOLLE was described principally
basing on the plate 42 in BANKS' Icones which was formerly drawn by ENGEL-
BERT KÆMPFER during his sojourn in Japan. Hence, there is no need of altering the
name to *Magnolia Thurneri*, *Magnolia kobushi* or *Magnolia præcocissima*. MAYR was right
in using *kobushi* instead of *Kobus* for the Japanese name of this species, but the chang-
ing the scientific name to *Magnolia kobushi* contradicts to the International Rules of
Nomenclature.

mm. lata; petala 6 alba obovato-oblonga 45–76 mm. longa 23–32 mm. lata; stamina numerosa; filamenta 1–1,5 mm. longa; antheræ laterales; connectivum apiculatum; styli 1,5–2 mm. longi intus stigmatosi; carpella ∞ imbricato-oblonga. Torus in fructu elongatus plus minus curvatus 30–40 mm. longus in quo carpella moniliforme disposita.

Nom. Jap. *Kobushi*.

Nom. Kor. *Sainkangnam*.

Hab.

Quelpaert: Mt. Hallasan 1000 m. (T. ISHIDOYA no. 178); in dumosis circa templum Kwannonji (T. NAKAI no. 1070); in silvis lateralis borealis montis Hallasan (T. NAKAI no. 4949); in silvis Hoatien 400 m. (E. TAQUET no. 5363); in silvis Mokan 500 m. (E. TAQUET no. 541).

Distr. Yeso austr., Hondo, Shikoku, Kiusiu.

7. ***Magnolia liliiflora* DESROUSSEUX.**

(*Tabula nostra XXV*)

***Magnolia liliiflora* DESROUSSEUX** in LAMARCK, Encyclop. III p. 675 (1791)–DU TOUR in Nouv. Dict. Hist. Nat. XIII p. 520 (1803)–REHDER & WILSON in SARGENT, Pl. Wils. I pt. 3 p. 402 (1913)–REHDER in BAILEY, Stand. Cyclop. IV p. 1968 (1916); in Journ. Arnold Arboret. V p. 146 (1924)–MORI, Enum. Corean Pl. p. 165 (1922)–MAKINO & NEMOTO, Fl. Jap. ed. I p. 940 (1925); ed. 2 p. 356 (1931)–MILLARS, Magnolias p. 65, 164 (1927). Syn. *Mokurenge* vel *Kirenge* I. Ito, Zôho Chikinshô V fol. 10 verso (1710).

Mokkwuren. Frutex Tulipifer etc. KÆMPFER, Amoenit. Exot. p. 845 (1712).

Magnolia glauca L. β . THUNBERG in Nova Acta Reg. Soc. Sci. Upsal. IV p. 34 (1783).

Magnolia glauca L. β . *flore magno atro-purpureo* THUNBERG, Fl. Jap. p. 236 (1784) pro descript.

Mokkwuren 2 BANKS, Icon. t. 44 (1791).

Magnolia purpurea CURTIS in Bot. Mag. XI t. 390 (1797)–ANDREWS, Bot. Reposit. V Pl. 324 (1804)–LOUDON, Arb. & Frutic. Brit. I p. 282 fig. 36 (1838).

Magnolia hirsuta THUNBERG, Mus. Upsal. XVI p. 137 (1794), nom. nud., Pl. Jap. Nov. Spec. p. 8 (1828), nom. nud.

Magnolia discolor VENTENAT, Jard. Malmaison t. 24 (1803)—DU MONT DE COURSET, Bot. Cult. ed. 2 V p. 131 (1811), excl. syn. *M. denudata*.

Magnolia gracilis SALISBURY, Parad. Lond. II p. 87 t. 87 (1807)—SPRENGEL, Syst. Veget. II p. 643 (1825).

Magnolia Kobus A. P. DE CANDOLLE, Syst. I p. 456 (1818), confr. *M. gracilis*; Prodr. I p. 81 (1824), pro *M. gracile*—STEUDEL, Nom. Bot. ed. 1, I p. 501 (1821), excl. syn. *M. glauca* et *M. tomentosa*—G. DON, Gen. Hist. Dichl. Pl. I p. 83 (1831), pro *M. gracilis*.

Magnolia obovata γ. *M. liliiflora* DESROUS. apud A. P. DE CANDOLLE, Syst. I p. 457 (1818)—STEUDEL, Nomencl. Bot. ed. 1, I p. 504 (1821) —A. P. DE CANDOLLE, Prodr. I p. 81 (1824) —G. DON, l. c.

Shimokuren KIYOWARA, Sômoku Seifu III fol. 20 cum fig. (1827).

Yulania japonica SPACH α. *purpurea* SPACH, Hist. Véget. VII p. 466 (1839), excl. syn.

Buergeria obovata SIEBOLD & ZUCCARINI in Abh. Acad. Wiss. Muench. IV. Abt. 2 p. 187 (1845), pro parte —A. GRAY in Narratives Capt. PERRY's Exped. China-sea & Japan II. appendix p. 307 (1857).

Talauma? *Sieboldii* MIQUEL in Ann. Mus. Bot. Lugd. Bat. II p. 257 (1866), pro parte; Prol. p. 145 (1866), pro parte; Cat. Mus. Bot. Lugd. Bat. p. 4 (1870), pro parte.

Magnolia obovata (non THUNBERG) KOCH, Dendrol. I p. 377 (1868)—PETZOLD & KIRCHNER, Arboret. Musc. p. 116 (1864)—MAXIMOWICZ in Mél. Biol. VIII p. 508 (1873)—LAUHE, Deutsch. Dendrol. p. 378 (1880)—MATSUMURA, Nippon Shokubutsu Meii p. 118 (1884); Cat. Pl. Herb. Imp. Univ. p. 1 (1886) —FORBES & HEMSLEY in Journ. Linn. Soc. XXIII p. 23 (1886) —PRANTL in ENGLER & PRANTL, Nat. Pflanzenfam. III Abt. 2 p. 16 (1891)—DIPPEL, Handb. Laubholzk. III p. 151 (1893)—KOEHNE, Deutsche Dendrol. p. 145 (1893)

—MATSUMURA, Shokubutsu Meii p. 181 (1895)—PALIBIN in Acta Hort. Petrop. XVIII p. 19 (1898)—YATABE, Nihon Shokubutsu Hen I p. 69 fig. 71 (1900)—REHDER in BAILEY, Cyclop. American Hort. II p. 966 (1901)—BEISSNER, SCHELLE & ZABEL, Handb. Laubholzbenn. p. 98 (1903)—GILG & LŒSEER in ENGLER, Bot. Jahrb. XXXIV, Beiheft no. 75 p. 35 (1904)—NAKAI, Fl. Kor. I p. 38 (1909)—MATSUMURA, Ind. Pl. Jap. II pt. 2 p. 95 (1912)—LŒSNER in Beihefte Bot. Centralb. XXXVII pt. 2 p. 124 (1920).

Magnolia denudata var. *liliiflora* SCHNEIDER, Illus. Handb. Laubholzk. I p. 330 (1905).

Magnolia denudata (non DESROUSSEUX) NAKAI, Chosen Shokubutsu I p. 79 fig. 74 (1914)—MORI, Enum. Corean Pl. p. 165 (1922).

Arbor. Rami atro-fusci. Gemmæ pilosæ oblongæ 2-perulatæ. Folia annua; petioli piloselli demum glabrescentes 7–10 mm. longi; lamina obovata 33–174 mm. longa 14–77 mm. lata primo adpresse-pilosella mox glabrescens. Flores in apice ramuli hornotini brevis terminales subsessiles; sepala 8–92 mm. longa 2–9 mm. lata viridi-purpurea recurva vel patentia; petala speciosa 50–125 mm. longa 15–46 mm. lata ascendentि-recurva extus intense purpurea intus purpurascens; stamna numerosa; antheræ laterales. Fructus in specimibus Koreanis ignotus.

Nom. Jap. *Shimokuren*.

In Korea culta.

Patria: China (Kiang-su, Hupeh, Szechuan).

(五) 朝鮮產木蘭科植物ノ和名、朝鮮名、
學名ノ對稱表

和 名	朝 鮮 名	學 名
まつぶさ	オーミジヤ(濟州島)	<i>Schizandra nigra</i> MAXIMOWICZ
てうせんごみし	オーミジヤ	<i>Schizandra chinensis</i> BAILLON var. <i>typica</i> NAKAI
いぬてうせんごみし	オーミジヤ	<i>Schizandra chinensis</i> BAILLON var. <i>glabrata</i> NAKAI
さねかづら、 びなんかづら	ブスン、ブスマ	<i>Kadsura japonica</i> DUNAL
し き み	バルゲツク(濟州島) チヨールクブリ(莞島)	<i>Ilicium anisatum</i> LINNÆUS
おほやまれんげ	ハンバルコルナム(全南) ハンパクコツナム(全鮮)	<i>Magnolia parviflora</i> SIEbold & ZUCCARINI
班入おほやまれんげ		<i>Magnolia parviflora</i> forma VARIFLATA NAKAI
こ ぶ し	サインカンナム	<i>Magnolia kobus</i> A. P. de CANDOLLE
しもくれん	モクニヨン	<i>Magnolia liliiflora</i> DESROUSSEAX.

(六) 朝鮮產木蘭科植物ノ分布

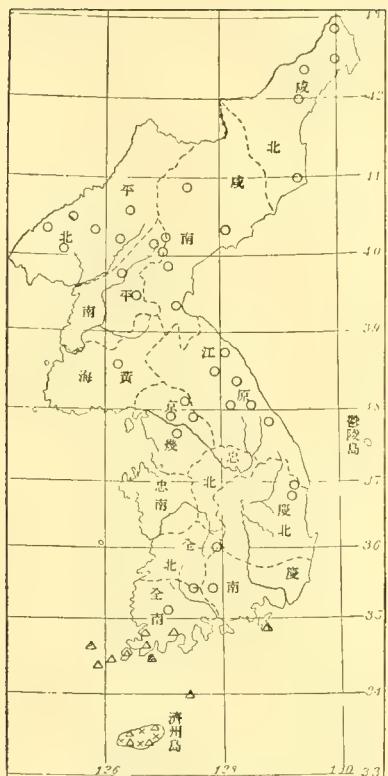
おほやまれんげハ鬱陵島ト咸北トヲ除ク外ハ全道ノ山地ニ生ズ。朝鮮ハ實ニ本樹ノ中心產地ナリ、朝鮮外ニハ山東半島ト九州ノ北部、四國、紀伊、大和ヲ經テ信濃ノ松本方面ニ迄分布スレドモ其產額ハ到底朝鮮ニ及バズ朝鮮ノ中央脊陵山脈ニテハ往々純群落ヲナス所サヘアリ。

こぶしひ濟州島漢拏山ノ斜面ニ自生ス、本植物ハ日本植物ニシテ朝鮮側迄分布スルモノ故濟州島ハ實ニ本植物分布ノ最西端ナリ、内地ニアリテハ北海道ノ南部、本島、四國、九州ニアリ就中本島ノ中部、北部ニ多シ。

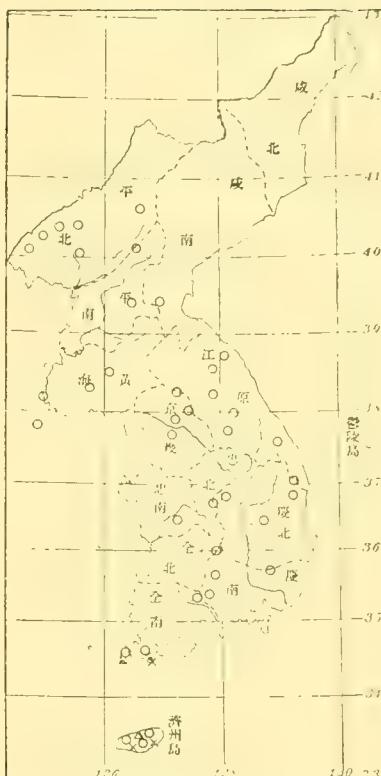
さねかづらハ濟州島、大黒山島、巨文島、烏島、佐治島、甫吉島、莞島、珍島、巨濟島ノ如キ島々ニ產シ朝鮮半島ニテハ全南ノ最南部ニ位スル大龍山、月出山、萬德山ニ自生ス。本種モ亦日本產植物ニシテ其朝鮮ニアルハ分布ノ西端ナリ、内地ニアリテハ對島、九州、四國、本島ニアリ。

まつぶさモ濟州島ニノミ產ス、本種モ亦日本植物ニシテ濟州島ハ實ニ本植物分布ノ最西端ナリ、さねかづら、こぶしト同ジク鳥ガ其種子ヲ内地側ヨリ運ビシモノナラン。

てうせんごみしハ濟州島ヲ除ク外ハ全道ニ分布ス、本種ハ朝鮮ニアル木蘭科植物中最モ分布ノ廣キ種ニシテ西ハ支那ノ河北省ヨリ始マリ滿



×まつぶさ *Schizandra nigra*
○でうせんごみし *Schizandra chinensis*
△さねかづら *Kadsura japonica*



×しきみ *Illicium anisatum*
○おほやまれんげ *Magnolia parviflora*
△こぶし *Magnolia kobus*

洲國、烏蘇利、樺太、北海道ヲ經テ本島ノ北部中部ニモアリ、本種ノ葉裏ニ毛ナキいぬてうせんごみしハ朝鮮ノ特產變種ニシテ未ダ朝鮮以外ニ分布スルヲ知ラズ。

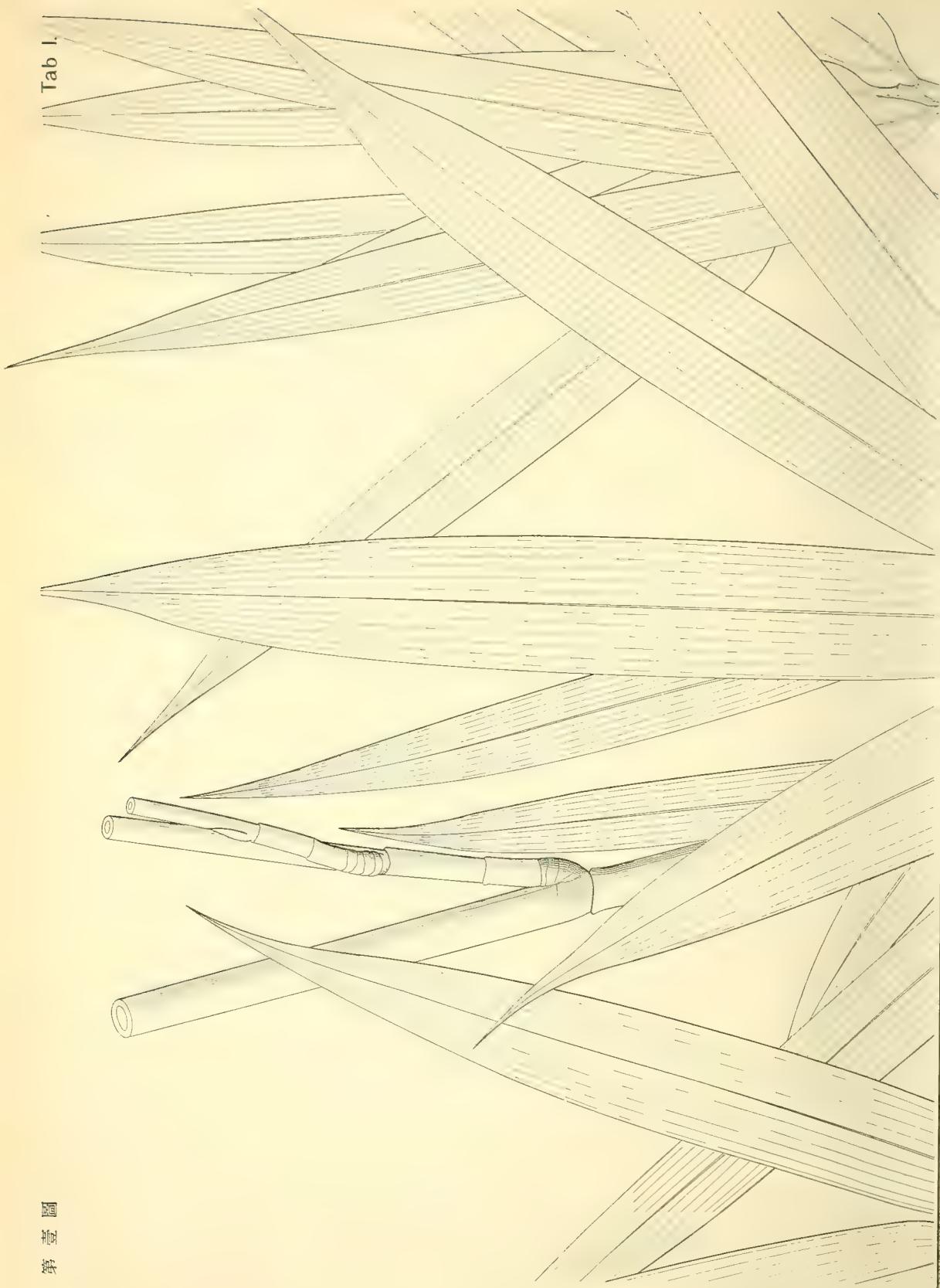
第 I 圖 Tabula I

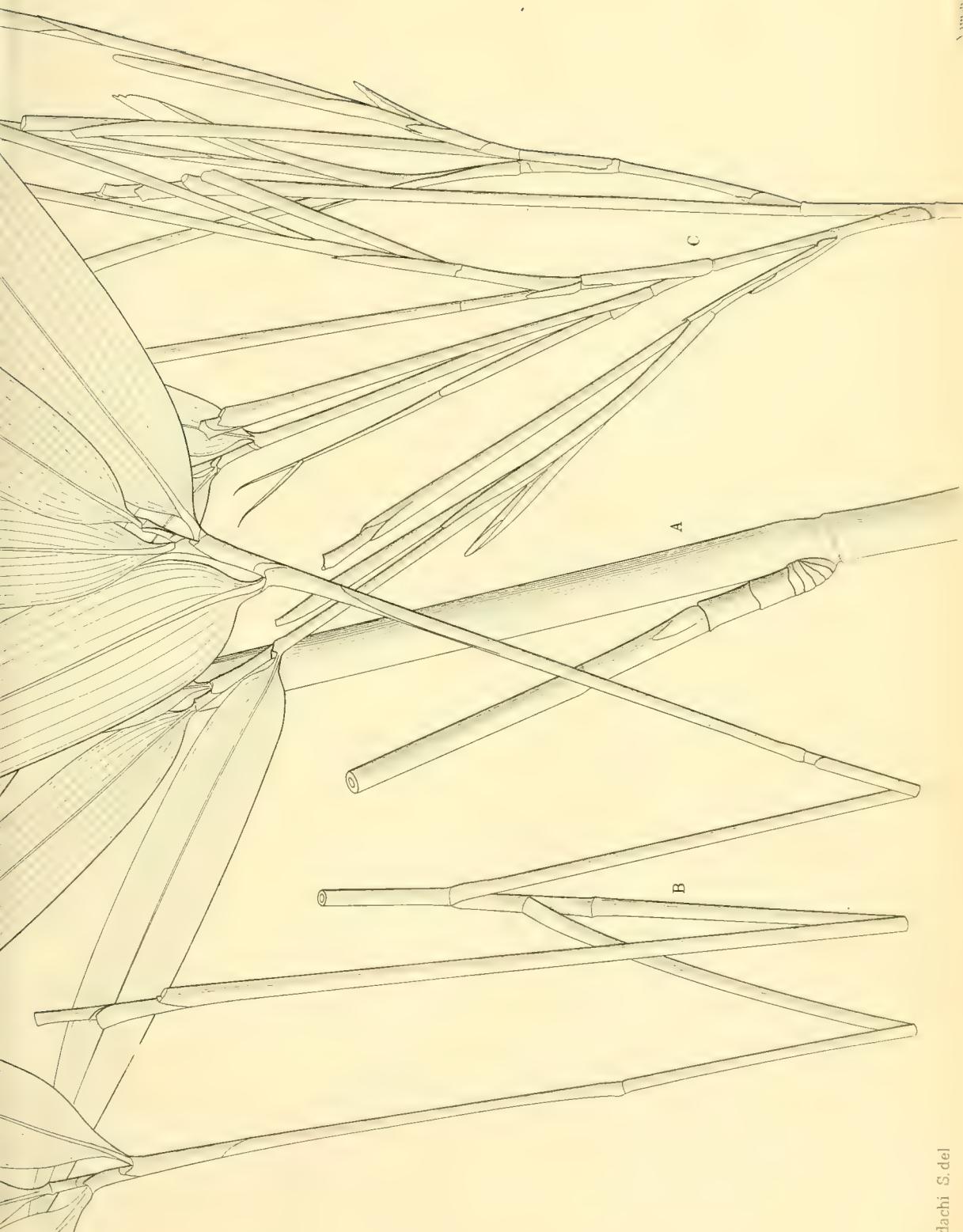
や だ け

Pseudosasa japonica MAKINO

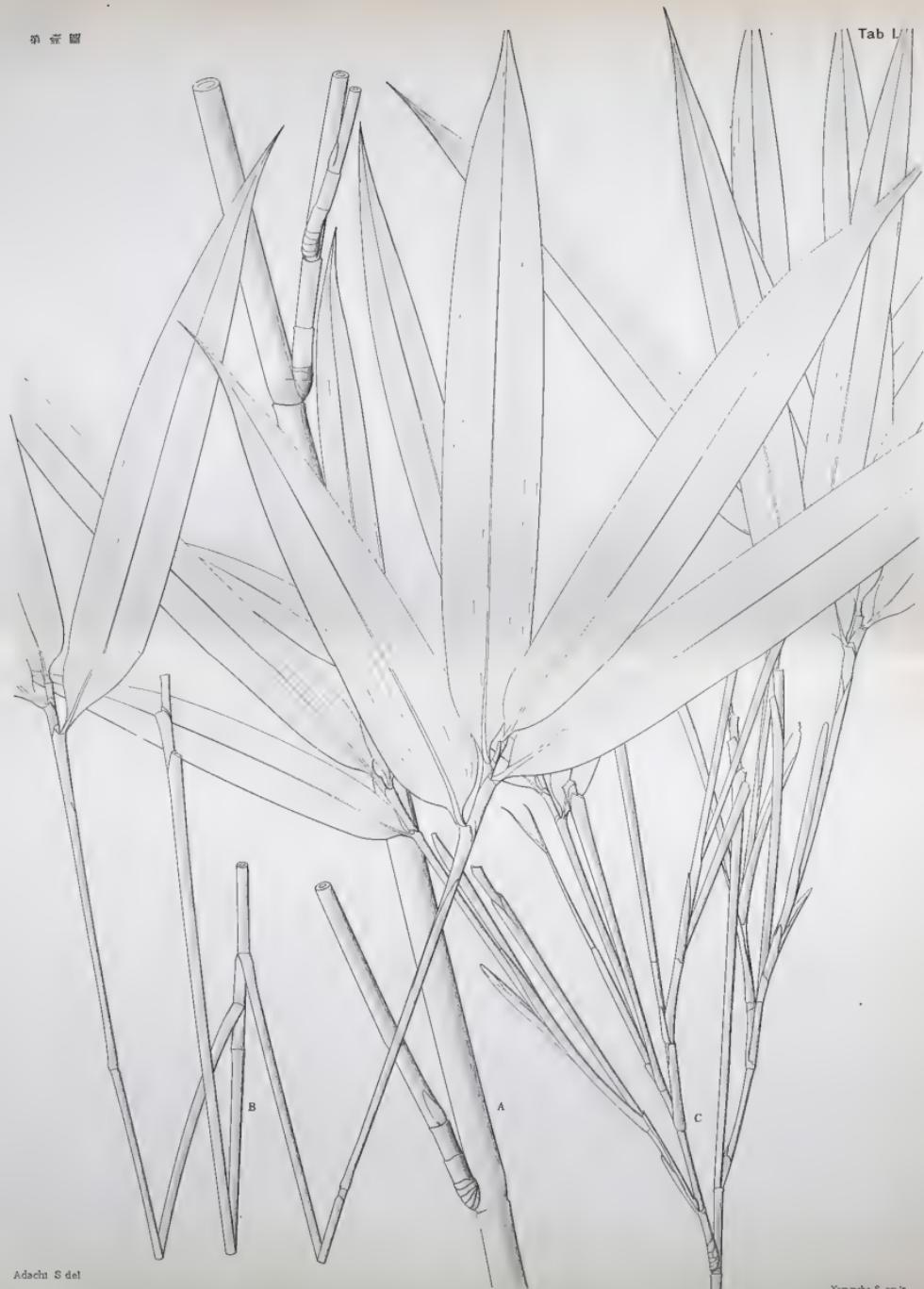
A. 稗ヨリ稗鞘ヲ除去シ枝ノ打方ヲ露 出ス (自然大)	A. <i>Vaginae culmorum et ramorum</i> <i>ex culmo seductæ et modum</i> <i>ramificationis exposit.</i> (mag. nat.)
B. 2年生ノ稗ノ枝ト葉 (自然大)	B. <i>Rami et folia culmorum bien-</i> <i>nium</i> (mag. nat.)
C. 4年生ノ稗ノ枝ト葉 (自然大)	C. <i>Rami et folia culmorum qua-</i> <i>driennium</i> (mag. nat.)

Tab I.





Adachi S. del

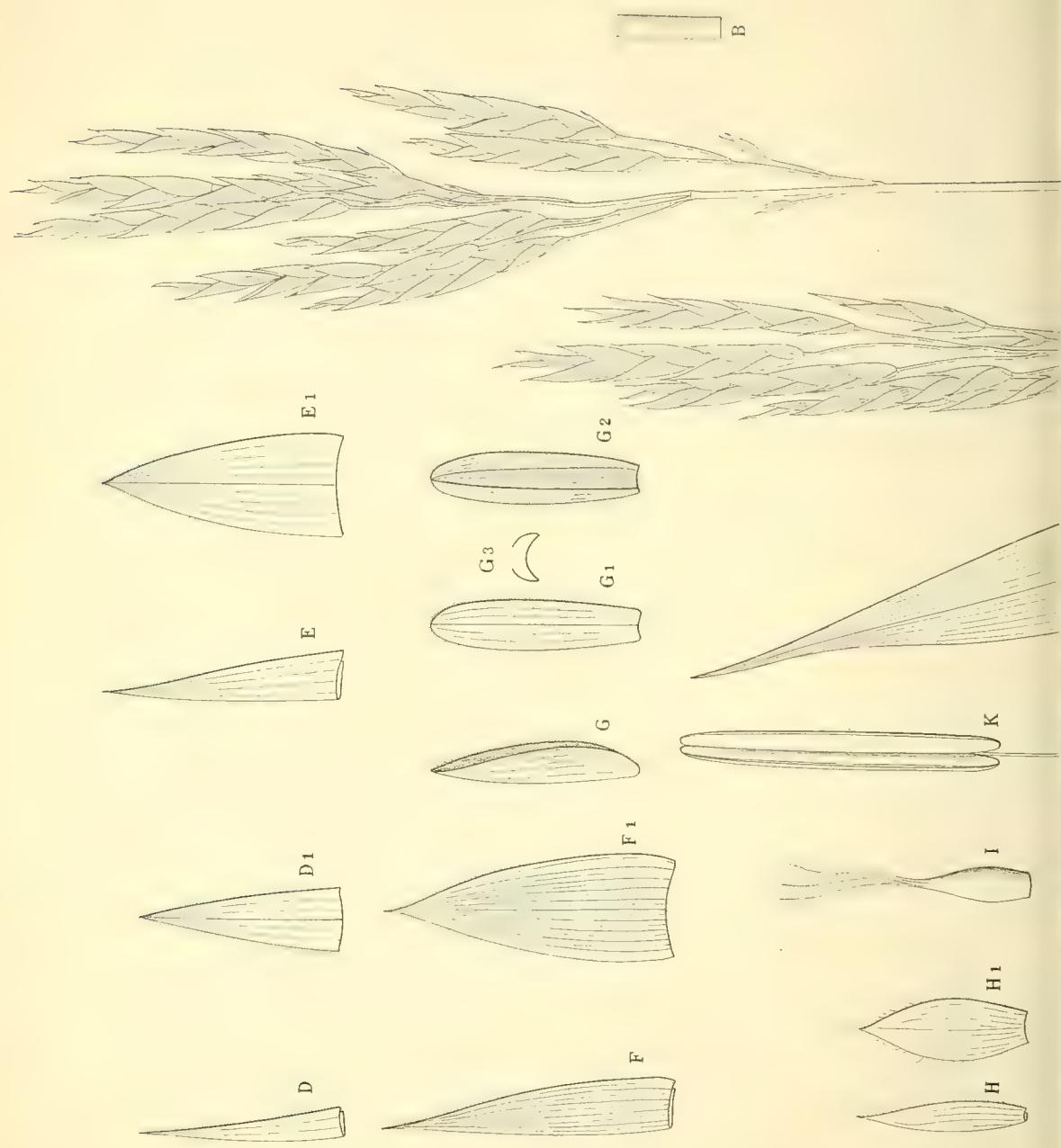


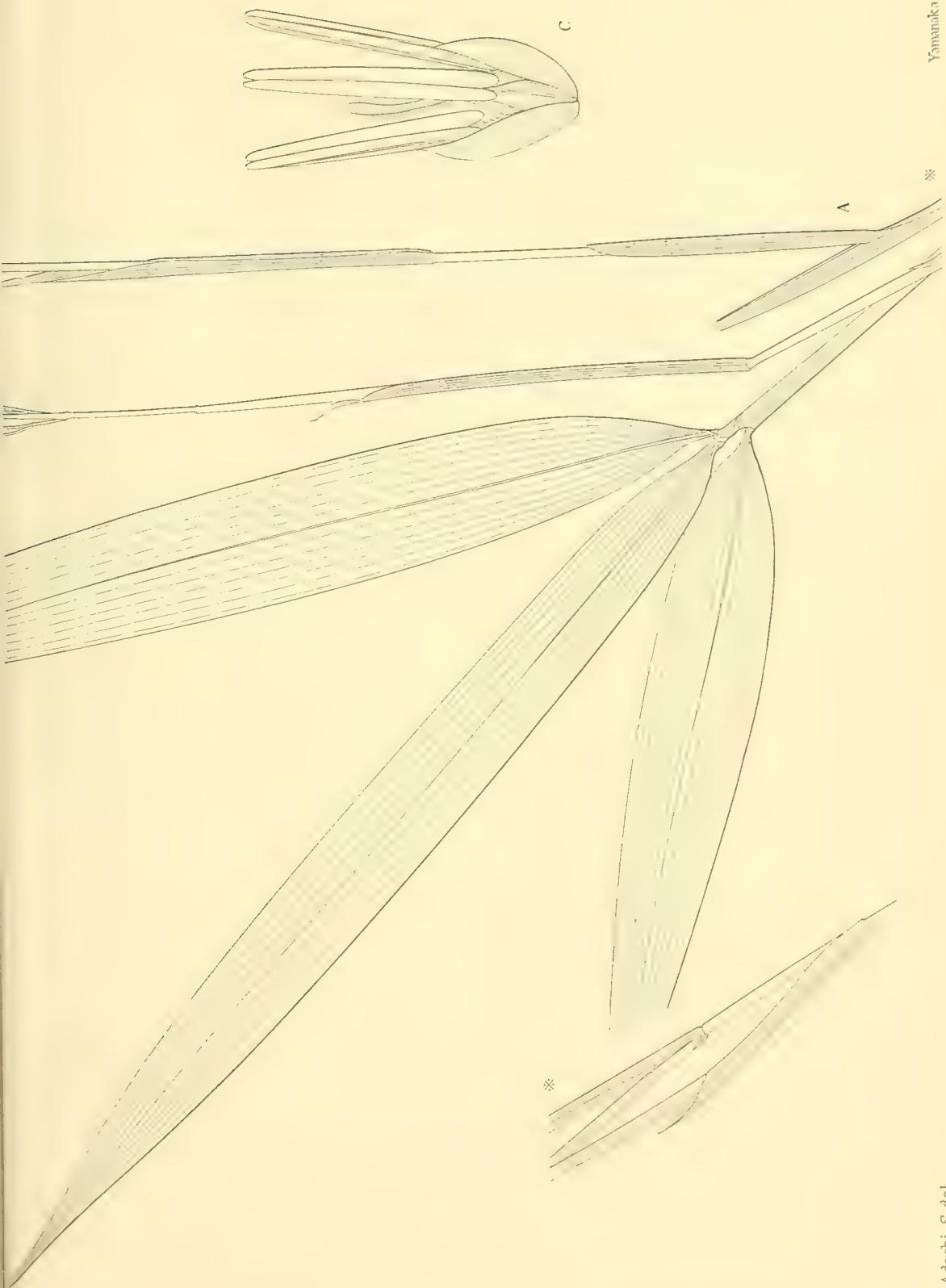
第 II 圖 Tabula II

や だ け

Pseudosasa japonica MAKINO

A. 花序ヲ附クル枝 (自然大)	A. Ramus cum inflorescentia (mag. nat.)
B. 花枝ノ1部ヲ廓大ス	B. Pars rami inflorescentiae aucta.
C. 内外穎ヲ除去シテ花ノ内部ヲ示ス (6倍大)	C. Glumas seductæ et interiorem floris exposit. ($\times 6$)
D. 下方ノ苞ヲ側方ヨリ見ル (5倍大)	D. Bractea inferior, laterali visa ($\times 5$)
D ₁ . 同上ヲ背面ヨリ見ル (5倍大)	D ₁ . Ditto, dorsali visa ($\times 5$)
E. 上方ノ苞ヲ側方ヨリ見ル (5倍大)	E. Bractea superior, laterali visa ($\times 5$)
E ₁ . 同上ヲ背面ヨリ見ル (5倍大)	E ₁ . Ditto, dorsali visa ($\times 5$)
F. 外穎ヲ側方ヨリ見ル (3倍大)	F. Gluma exterior, laterali visa ($\times 3$)
F ₁ . 同上ヲ背面ヨリ見ル (3倍大)	F ₁ . Ditto, dorsali visa ($\times 3$)
G. 内穎ヲ側方ヨリ見ル (3倍大)	G. Gluma interior, laterali visa ($\times 3$)
G ₁ . 同上ヲ背面ヨリ見ル (3倍大)	G ₁ . Ditto, dorsali visa ($\times 3$)
G ₂ . 同上ヲ腹面ヨリ見ル (3倍大)	G ₂ . Ditto, ventrali visa ($\times 3$)
G ₃ . 同上ノ横断模型	G ₃ . Diagramma sectionis glumæ interioris
H. 花穎ヲ側方ヨリ見ル (6倍大)	H. Palea, laterali visa ($\times 6$)
H ₁ . 花穎ヲ背面ヨリ見ル (6倍大)	H ₁ . Palea, dorsali visa ($\times 6$)
I. 雌蕊 (6倍大)	I. Pistillum ($\times 6$)
K. 药ヲ内側ヨリ見ル (6倍大)	K. Anthera ventrali visa ($\times 6$)





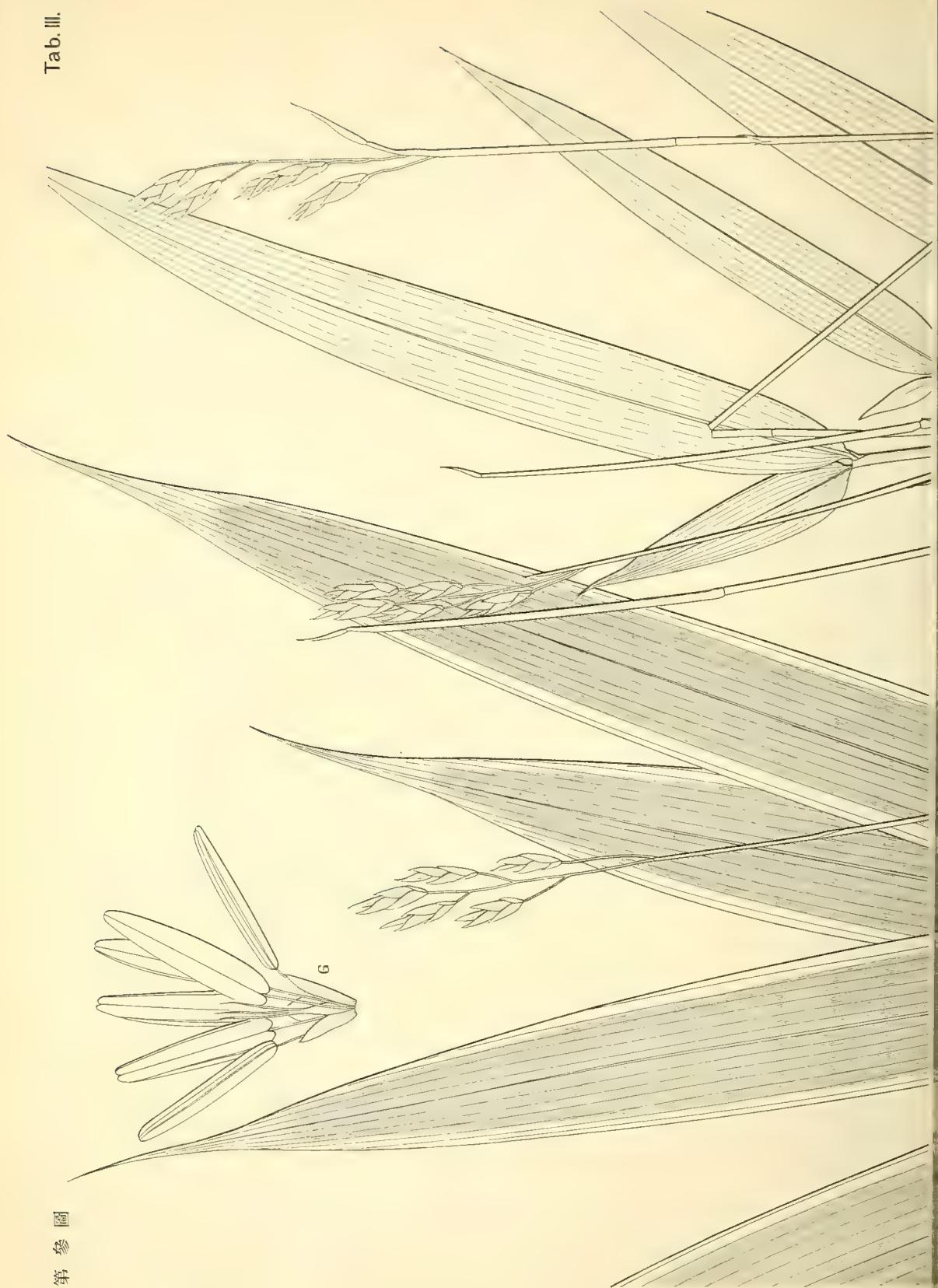


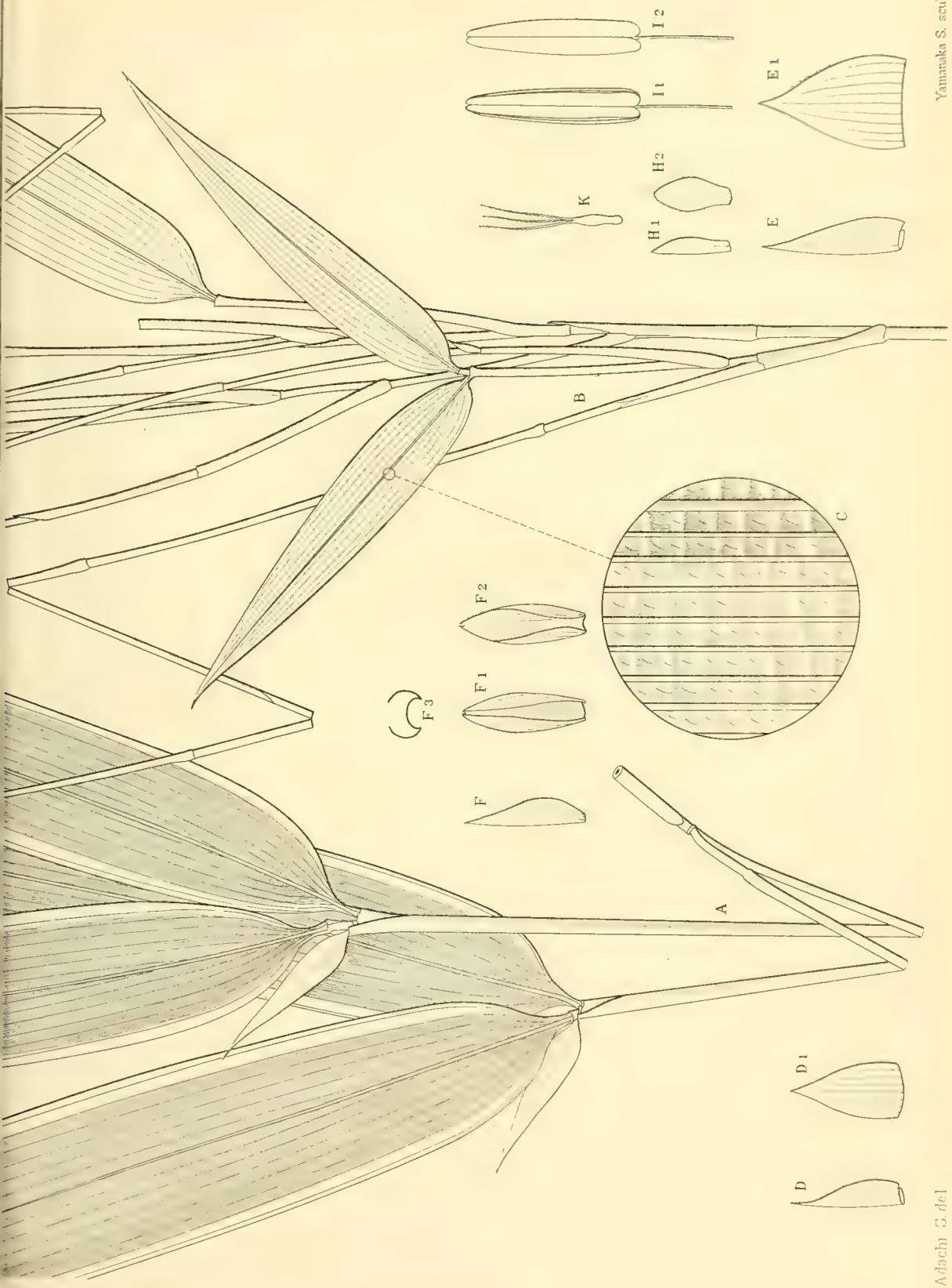
第 III 圖 Tabula III

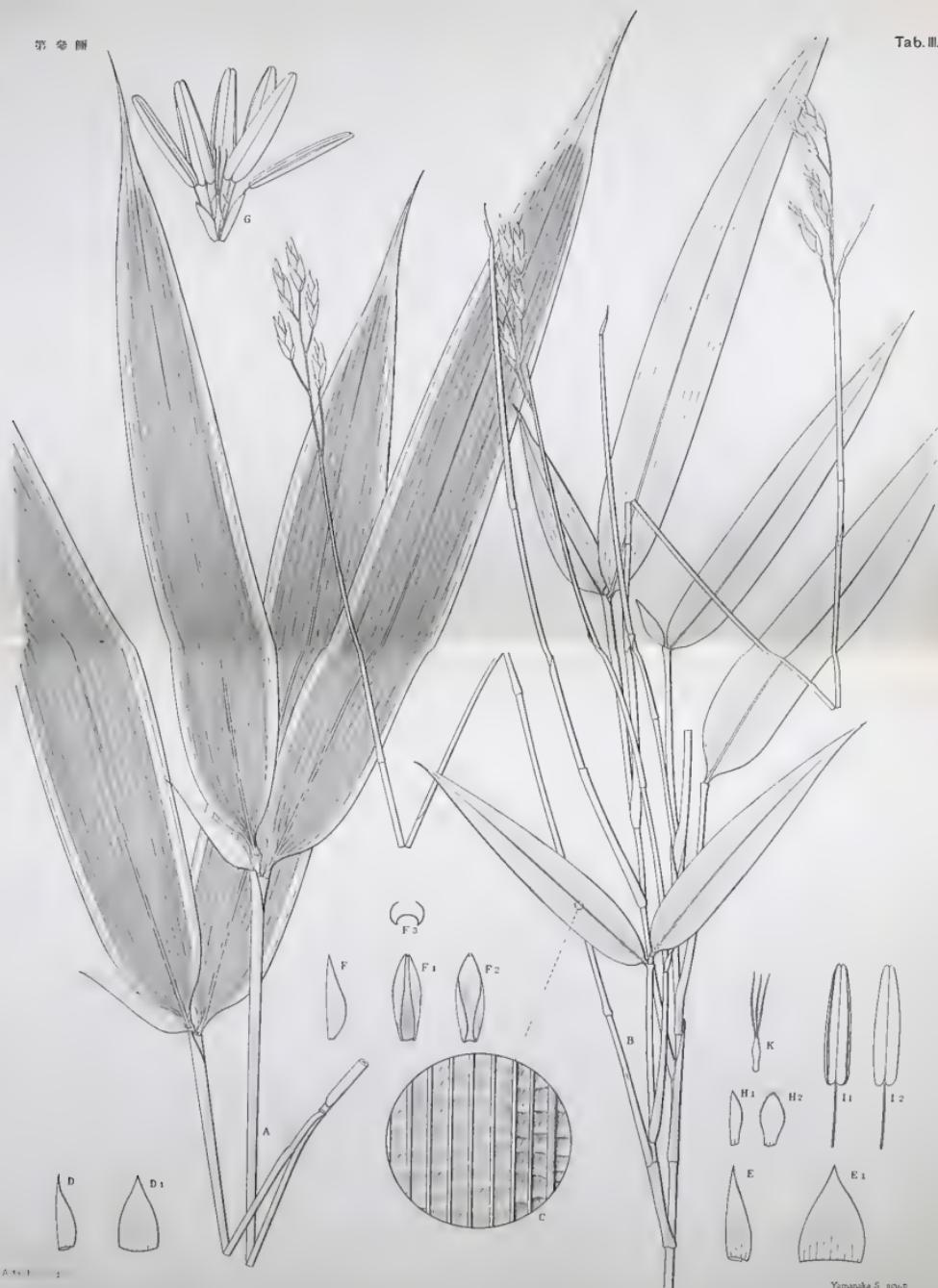
紀 州 す す

Sasamorpha gracilis NAKAI

A. 葉ヲ附クル第1次ノ枝 (自然大)	A. Rami primarii cum foliis (mag. nat.)
B. 葉ト花序トヲ附クル3年生ノ稈 (自然大)	B. Culmus triennes cum foliis et in-florescentiis (mag. nat.)
C. 葉ノ1部ノ裏面 (廓大)	C. Pagina inferior partis folii (auc-ta)
D. 内方 (上方) ノ苞ヲ側面ヨリ見ル ($\times 3$)	D. Bractea interior (v. superior), laterali visa ($\times 3$)
D ₁ . 同上ヲ擴ゲテ背面ヨリ見ル ($\times 3$)	D ₁ . Ditto extensa et dorsali visa ($\times 3$)
E. 外穎ノ側面觀 ($\times 3$)	E. Gluma exterior, laterali visa ($\times 3$)
E ₁ . 同上ヲ擴ゲテ背面ヨリ見ル ($\times 3$)	E ₁ . Ditto extensa et dorsali visa ($\times 3$)
F. 内穎ノ側面觀 ($\times 3$)	F. Gluma interior, laterali visa ($\times 3$)
F ₁ . 同上ノ腹面觀 ($\times 3$)	F ₁ . Ditto, ventrali visa ($\times 3$)
F ₂ . 同上ノ背面觀 ($\times 3$)	F ₂ . Ditto, dorsali visa ($\times 3$)
F ₃ . 内穎ノ横斷模型圖	F ₃ . Diagramma sectionis glumæ in-terioris.
G. 穎ヲ除去シタル花 ($\times 6$)	G. Flos cum glumis seductis ($\times 6$)
H. 花穎ノ側面觀 ($\times 6$)	H. Palea, laterali visa ($\times 6$)
H ₁ . 同上ノ背面觀 ($\times 6$)	H ₁ . Ditto, dorsali visa ($\times 6$)
I. 雄蕊ノ腹面觀 ($\times 6$)	I. Stamen, ventrali visum ($\times 6$)
I ₁ . 同上ノ背面觀 ($\times 6$)	I ₁ . Ditto, dorsali visum ($\times 6$)
K. 雌蕊 ($\times 6$)	K. Pistillum ($\times 6$)





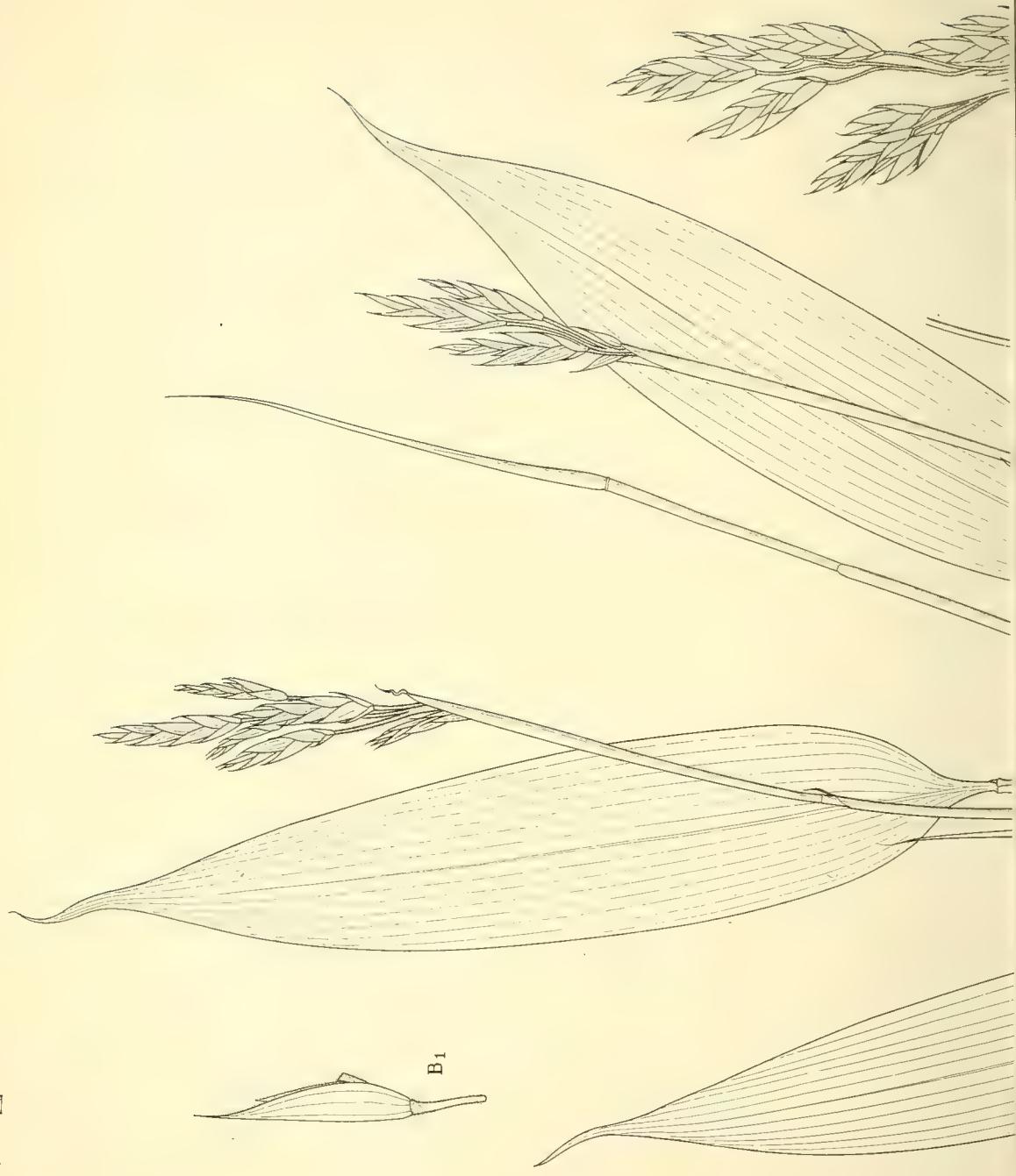


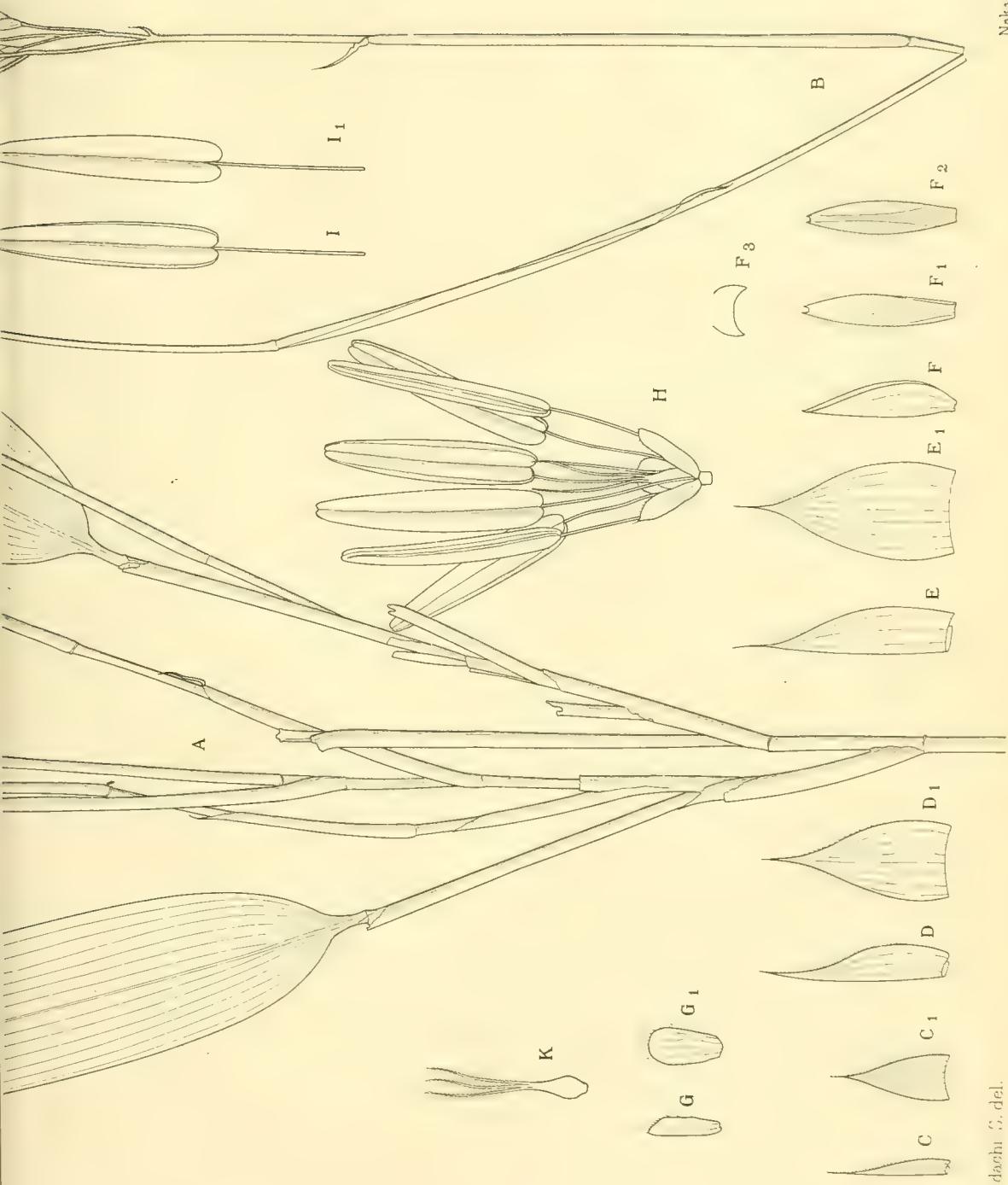
第 IV 圖 Tabula IV

高麗すず

Sasamorpha chiisanensis NAKAI

A. 花序ヲ附クル枝 (自然大)	A. Rami cum inflorescentia (mag. nat.)
B. 發育ヨキ花序 (自然大)	B. Inflorescentia bene evoluta (mag. nat.)
B ₁ . 花軸ノ1部ト花 (×3)	B ₁ . Flos cum rachi (×3)
C. 下方ノ苞ヲ側方ヨリ見ル (×4)	C. Bractea inferior, laterali visa (×4)
C ₁ . 同上ヲ背面ヨリ見ル (×4)	C ₁ . Ditto. dorsali visa (×4)
D. 上方ノ苞ヲ側方ヨリ見ル (×4)	D. Bractea superior, laterali visa (×4)
D ₁ . 同上ヲ背面ヨリ見ル (×4)	D ₁ . Ditto, dorsali visa (×4)
E. 外穎ヲ側方ヨリ見ル (×3)	E. Gluma exterior, laterali visa (×3)
E ₁ . 同上ヲ背面ヨリ見ル (×3)	E ₁ . Ditto, dorsali visa (×3)
F. 内穎ヲ側方ヨリ見ル (×3)	F. Gluma interior, laterali visa (×3)
F ₁ . 同上ヲ背面ヨリ見ル (×9)	F ₁ . Ditto, dorsali visa (×3).
F ₂ . 同上ヲ腹面ヨリ見ル (×3)	F ₂ . Ditto, ventrali visa (×3)
F ₃ . 同上ノ横斷模型圖	F ₃ . Diagramma sectionis glumæ interioris.
G. 花穎ヲ側方ヨリ見ル (×6)	G. Palea, laterali visa (×6)
G ₁ . 同上ヲ背面ヨリ見ル (×6)	G ₁ . Ditto, dorsali visa (×6)
H. 内外穎ヲ除去シテ花ノ内部ヲ示ス (×6)	H. Glumæ seductæ et interior floris exposita.
I. 雄蕊ヲ腹面ヨリ見ル (×6)	I. Stamen, ventrali visum (×6)
I ₁ . 同上ヲ背面ヨリ見ル (×6)	I ₁ . Ditto, dorsali visum (×6)
K. 雌蕊 (×6)	K. Pistillum (×6)







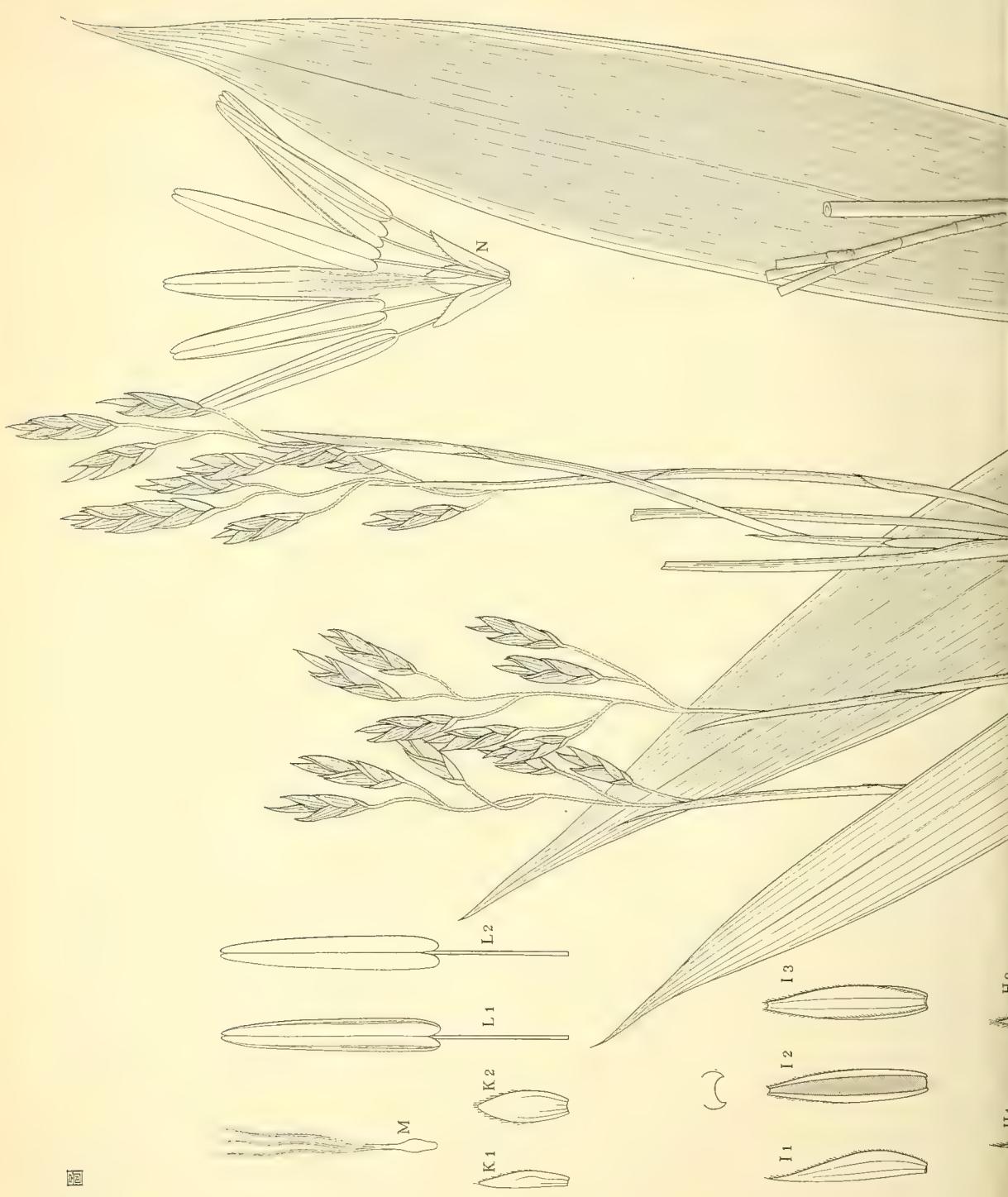
第 V 圖 Tabula V

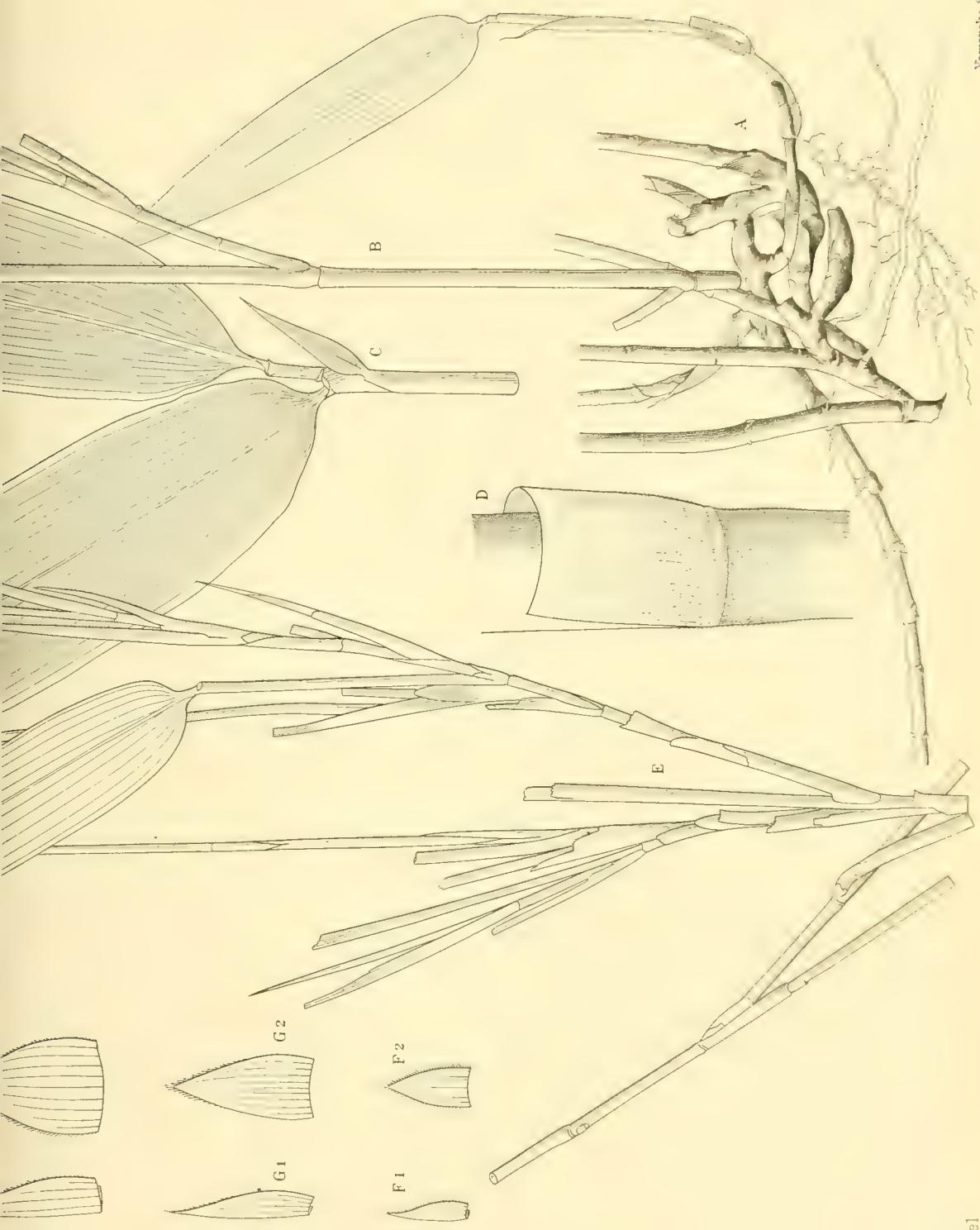
ぢ だ け

Sasamorpha purpurascens NAKAI

var. *borealis* NAKAI

A. 地下莖ノ 1 部 (自然大)	A. Pars rhizomatis ($\times 1$)
B. 3 年生ノ 程ノ 1 部 (,,)	B. Pars culmi triennis ($\times 1$)
C. 1 年生ノ 程ノ 先ニ葉ヲ附ク (,,)	C. Apex culmi annui cum foliis ($\times 1$)
D. 初年度ノ 節 ($\times 6$)	D. Nodus hornotinus ($\times 6$)
E. 葉ト花序トヲ附クル 5 年生ノ 程 (自然大)	E. Culmus 5-ennis cum folio et in- florescentiis ($\times 1$)
F. 下方ノ 莖ノ 側面觀 ($\times 3$)	F. Bractea inferior, laterali visa ($\times 3$)
F ₁ . 同上ヲ擴ゲテ背面ヨリ見ル ($\times 3$)	F ₁ . Ditto extensa et dorsali visa ($\times 3$)
G. 上方ノ 莖ノ 側面觀 ($\times 3$)	G. Bractea superior, laterali visa ($\times 3$)
G ₁ . 同上ヲ擴ゲテ背面ヨリ見ル ($\times 3$)	G ₁ . Ditto extensa et dorsali visa ($\times 3$)
H. 外穎ノ 側面觀 ($\times 3$)	H. Gluma exterior, laterali visa ($\times 3$)
H ₁ . 同上ヲ擴ゲテ背面ヨリ見ル ($\times 3$)	H ₁ . Ditto extensa et dorsali visa ($\times 3$)
I. 内穎ノ 側面觀 ($\times 3$)	I. Gluma interior, laterali visa ($\times 3$)
I ₁ . 内穎ノ 腹面觀 ($\times 3$)	I ₁ . Ditto, ventrali visa ($\times 3$)
I ₂ . 内穎ノ 背面觀 ($\times 3$)	I ₂ . Ditto, dorsali visa ($\times 3$)
I ₃ . 内穎ノ 橫斷模型	I ₃ . Diagramma sectionis glumæ in- terioris.
K. 花穎ノ 側面觀 ($\times 6$)	K. Palea, laterali visa ($\times 6$)
K ₁ . 同上ノ 背面觀 ($\times 6$)	K ₁ . Ditto, dorsali visa ($\times 6$)
L. 雄蕊ノ 腹面觀 ($\times 6$)	L. Stamen, ventrali visum ($\times 6$)
L ₁ . 同上ノ 背面觀 ($\times 6$)	L ₁ . Ditto, dorsali visum ($\times 6$)
M. 雌蕊 ($\times 6$)	M. Pistillum ($\times 6$)
N. 内外穎ヲ除去シタル花 ($\times 6$)	N. Flos, cum glumis seductis ($\times 6$)







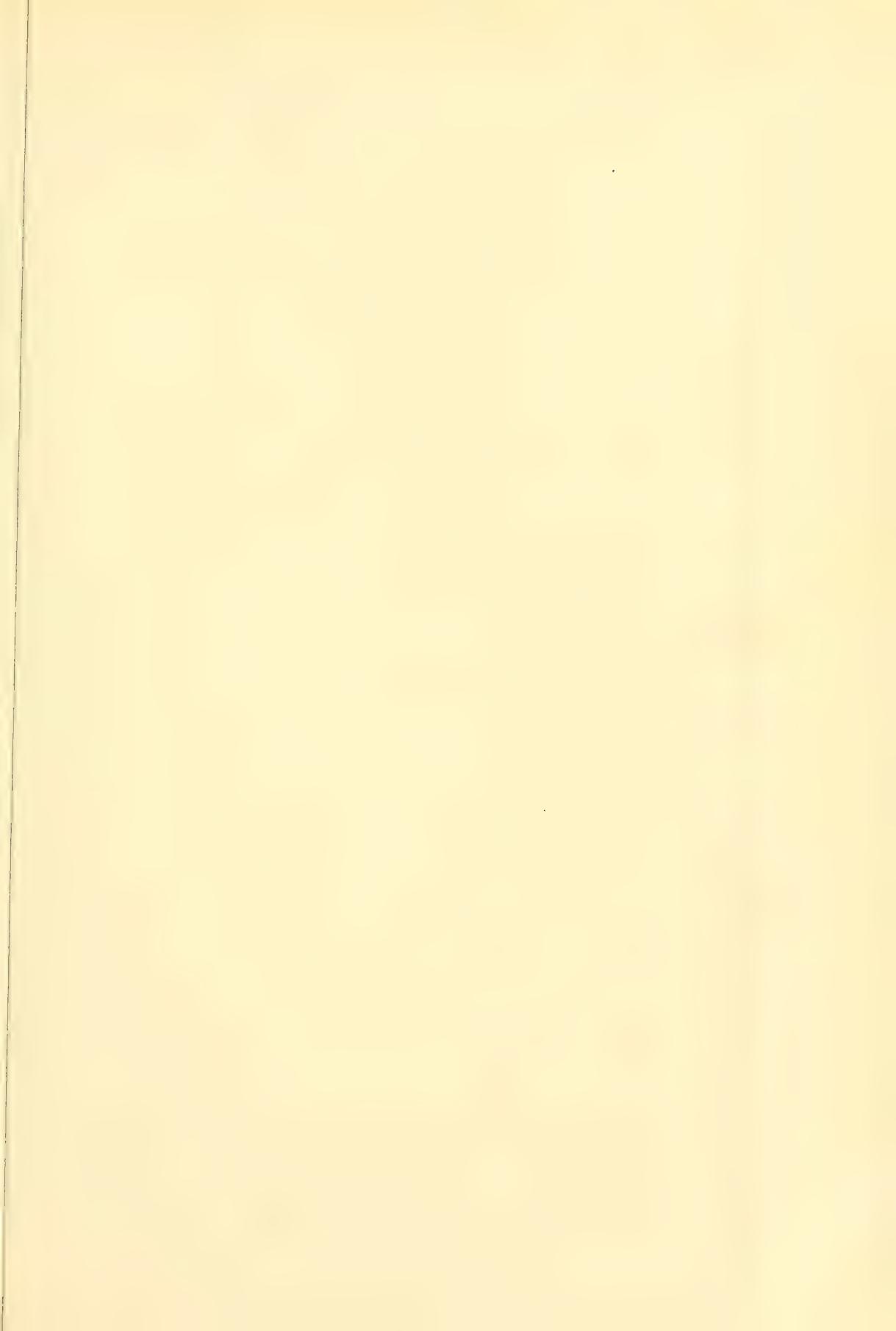


第 VI 圖 Tabula VI

かはたけ (めだけ)

Pleioblastus Simonii NAKAI

A. 稗ノ1部 (自然大)	A. Pars culmi ($\times 1$)
B. 枝ノ出デタル節ヨリ籜ヲ除去シテ 枝ノ出方ヲ見ル (自然大)	B. Cum vaginis seductis modum ramificationis exposit ($\times 1$)
C. 葉ヲ附クル稗ノ1部 (自然大)	C. Pars culmi cum foliis ($\times 1$)
D. 肩ノ毛ト舌状體トヲ廓大ス	D. Setae orales et ligula, auctae.
E. 花序 (自然大)	E. Inflorescentia ($\times 1$)
F. 花ト花軸ノ1部	F. Flos et pars rachis ($\times 1$)
G. 下方ノ苞ヲ側方ヨリ見ル ($\times 3$)	G. Bractea inferior, laterali visa ($\times 3$)
G ₁ . 同上ヲ背面ヨリ見ル ($\times 3$)	G ₁ . Ditto, dorsali visa ($\times 3$)
H. 上方ノ苞ヲ側方ヨリ見ル ($\times 3$)	H. Bractea superior, laterali visa ($\times 3$)
H ₁ . 同上ヲ背面ヨリ見ル ($\times 3$)	H ₁ . Ditto, dorsali visa ($\times 3$)
I. 外穎ヲ側方ヨリ見ル ($\times 3$)	I. Gluma exterior, laterali visa ($\times 3$)
I ₁ . 同上ヲ背面ヨリ見ル ($\times 3$)	I ₁ . Ditto, dorsali visa ($\times 3$)
K. 内穎ヲ側方ヨリ見ル ($\times 3$)	K. Gluma interior, laterali visa ($\times 3$)
K ₁ . 同上ヲ腹面ヨリ見ル ($\times 3$)	K ₁ . Ditto, ventrali visa ($\times 3$)
K ₂ . 同上ヲ背面ヨリ見ル ($\times 3$)	K ₂ . Ditto, dorsali visa ($\times 3$)
L. 花穎ヲ側面ヨリ見ル ($\times 6$)	L. Palea, laterali visa ($\times 6$)
L ₁ . 同上ヲ背面ヨリ見ル ($\times 6$)	L ₁ . Ditto, dorsali visa ($\times 6$)
M. 雄蕊ヲ腹面ヨリ見ル ($\times 6$)	M. Stamen, ventrali visum ($\times 6$)
M ₁ . 同上ヲ背面ヨリ見ル ($\times 6$)	M ₁ . Ditto, dorsali visum ($\times 6$)
N. 雌蕊 ($\times 6$)	N. Pistillum ($\times 6$)



第六圖

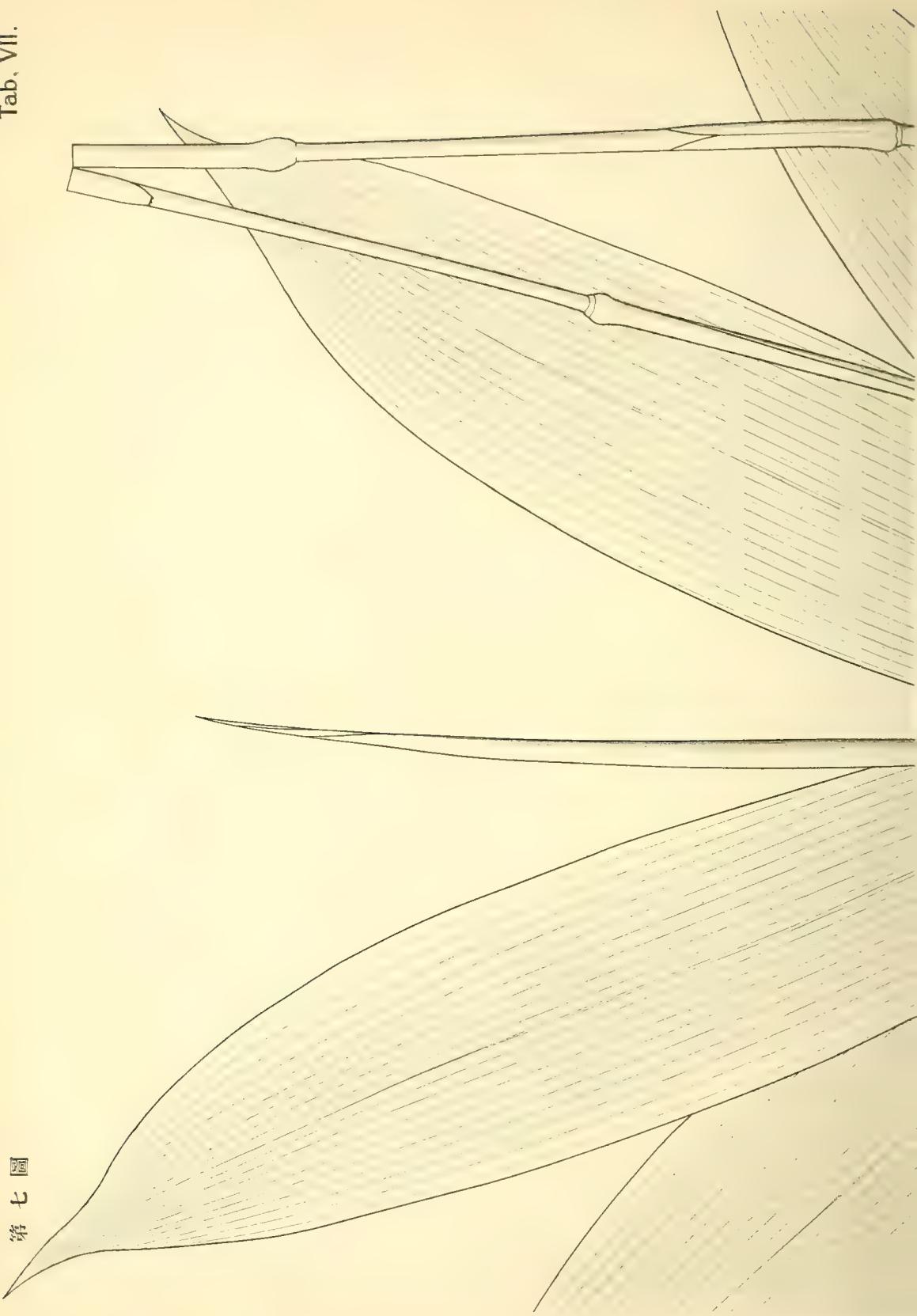


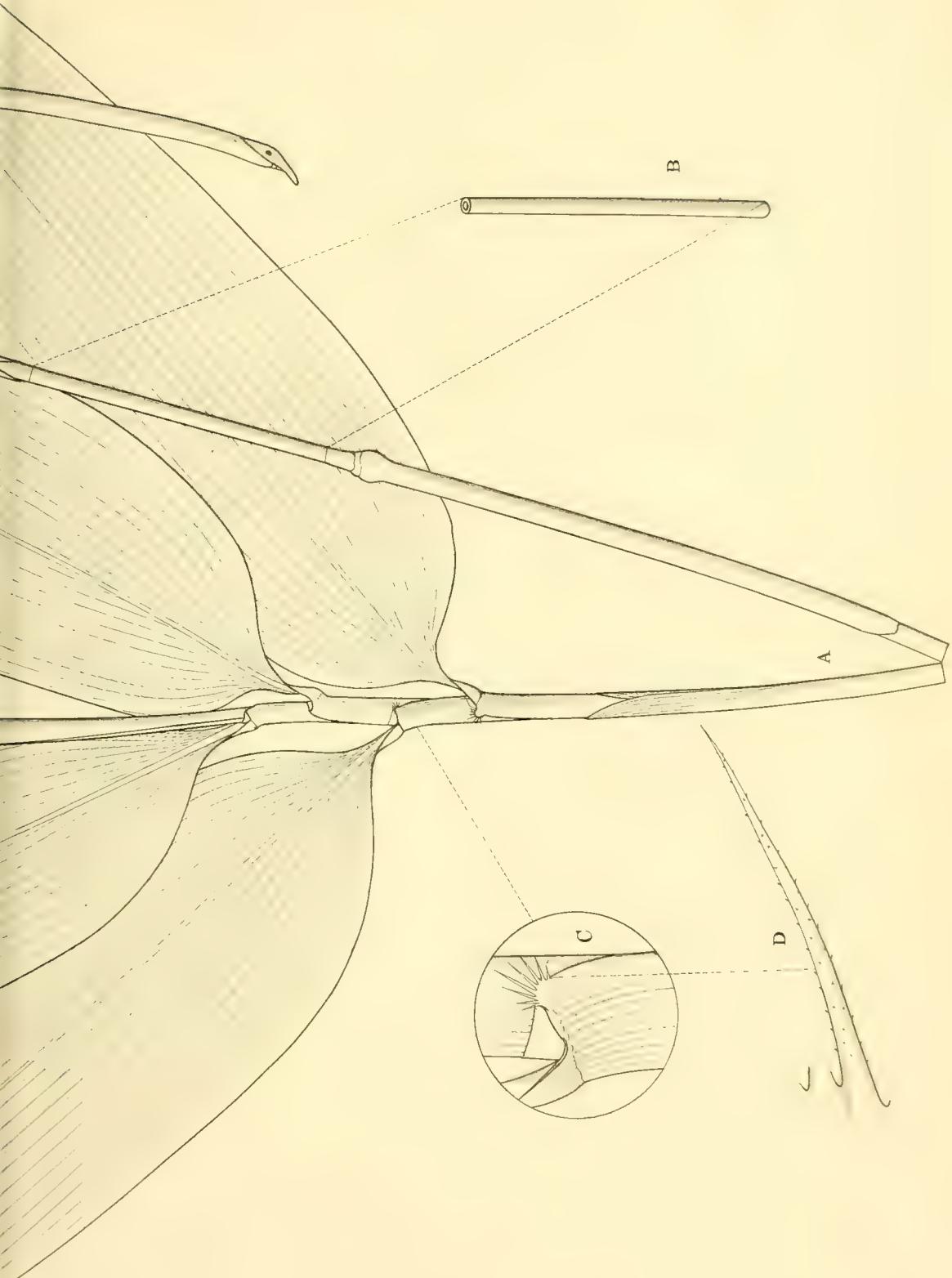
第 VII 圖 Tabula VII

たんなざさ

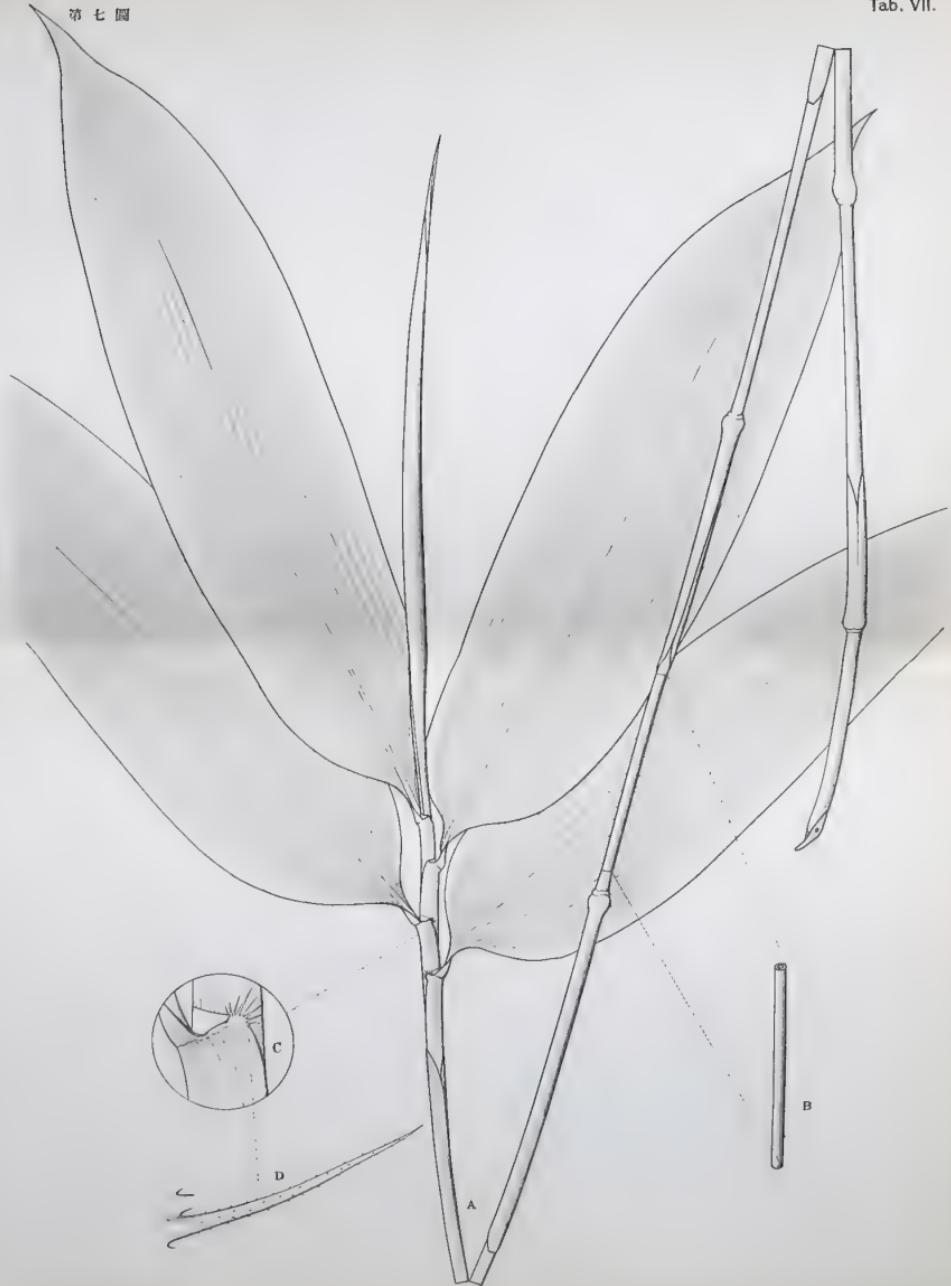
Sasa quelpaertensis NAKAI

A. 葉ヲ附クル1年生ノ稈 (自然大)	A. Culmus hornotinus cum foliis ($\times 1$)
B. 節間ノ1部 (自然大)	B. Pars internodii ($\times 1$)
C. 葉鞘ノ先端 ($\times 4$)	C. Pars apicalis vaginæ ($\times 4$)
D. 肩ノ毛ヲ大ニ廓大ス	D. Seta oralis, multo aucta.





第七圖



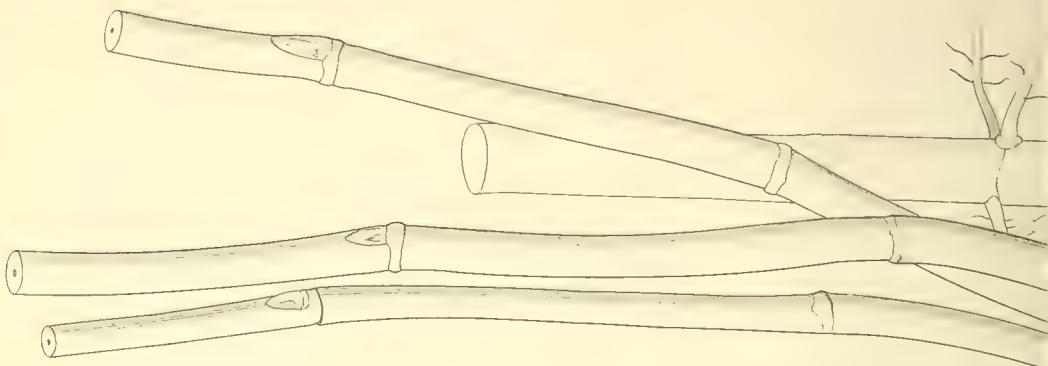
第 VIII 圖 Tabula VIII

かうらいざさ

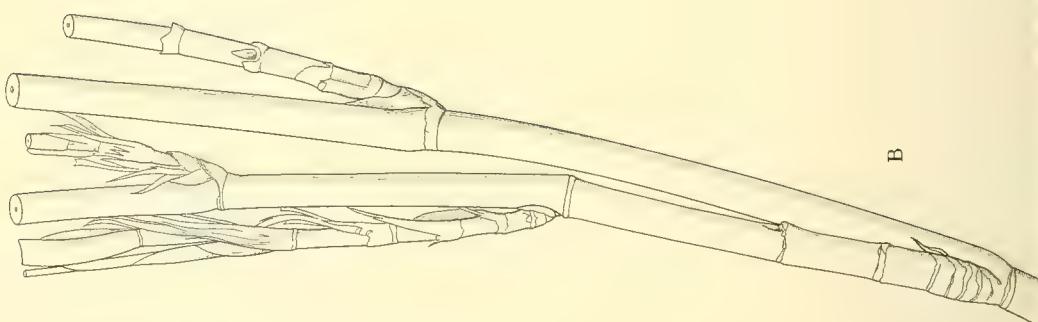
Sasa coreana NAKAI

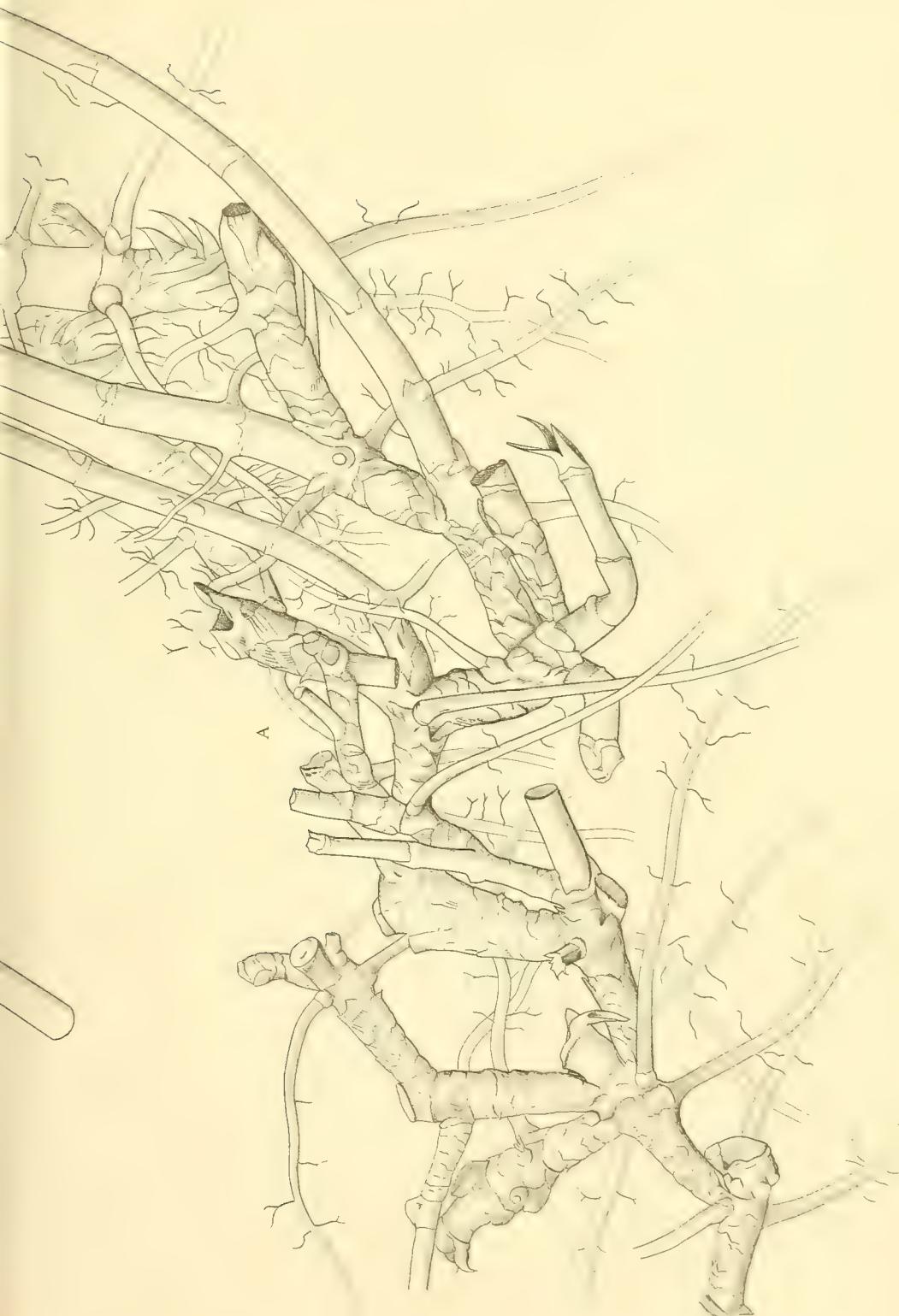
A. 地下莖ノ1部ト稈ノ下方
(自然大)
B. 4年生ノ稈ノ1部 (自然大)

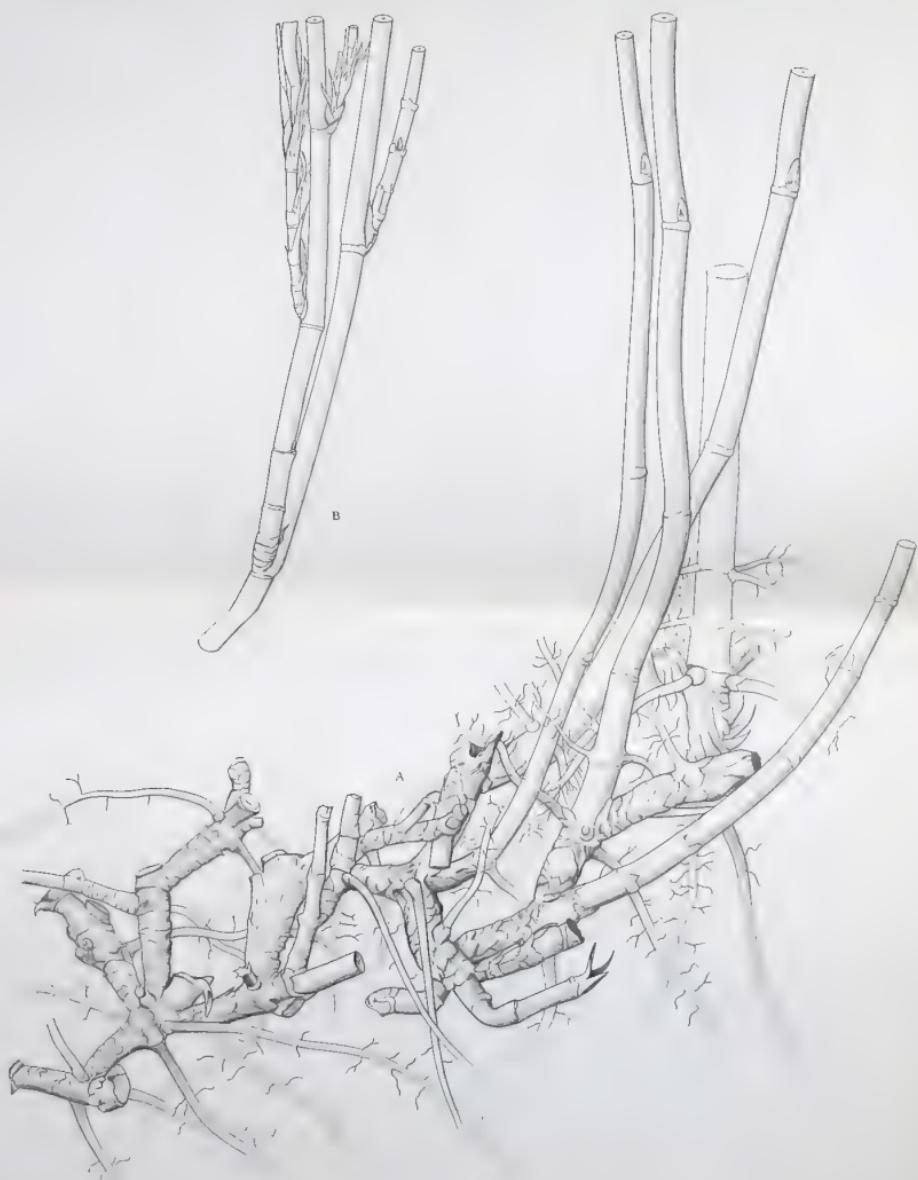
A. Pars rhizomatis cum inferiori-
bus partibus culmorum ($\times 1$)
B. Pars culmi quadriennis ($\times 1$)



B





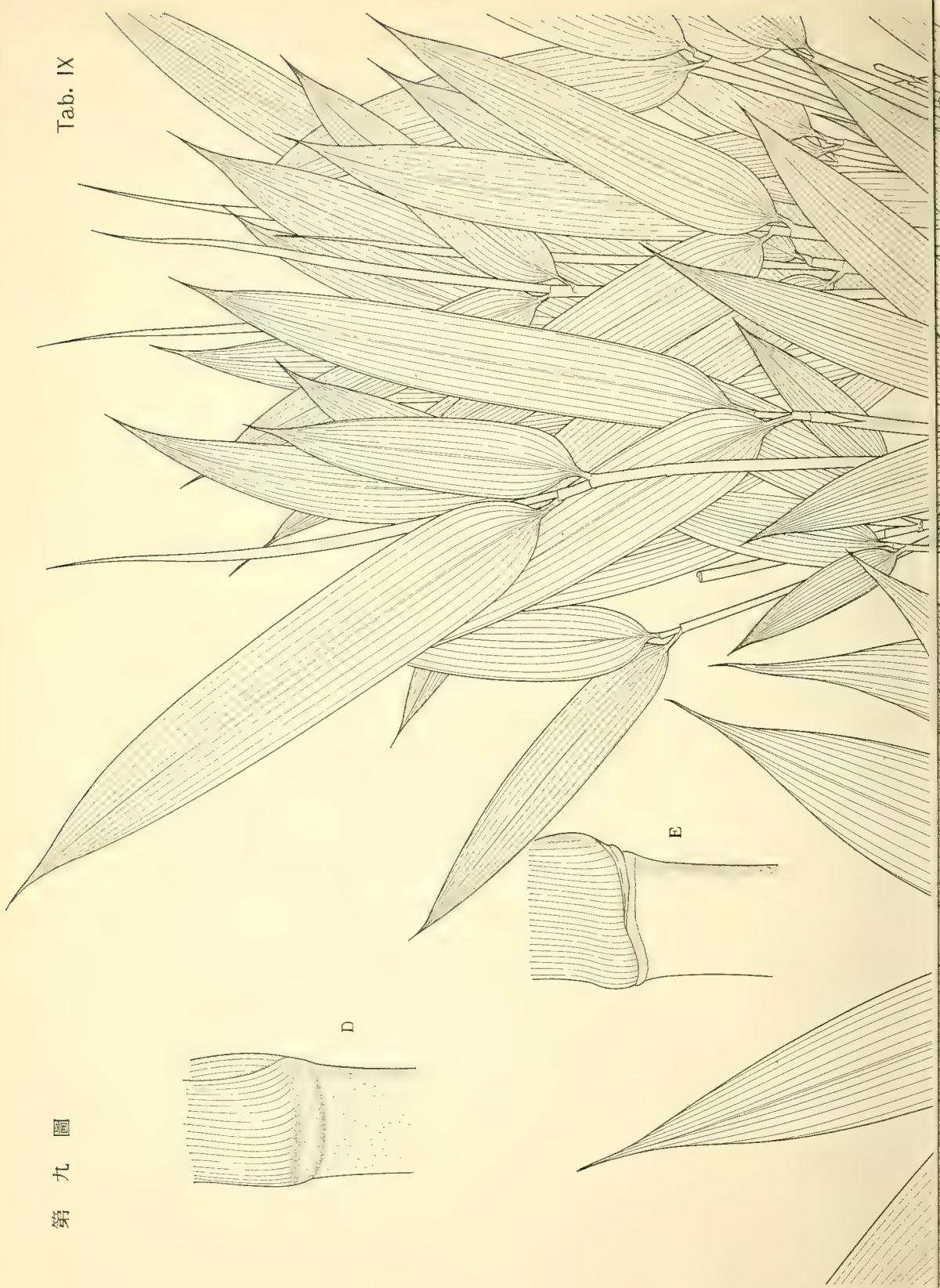


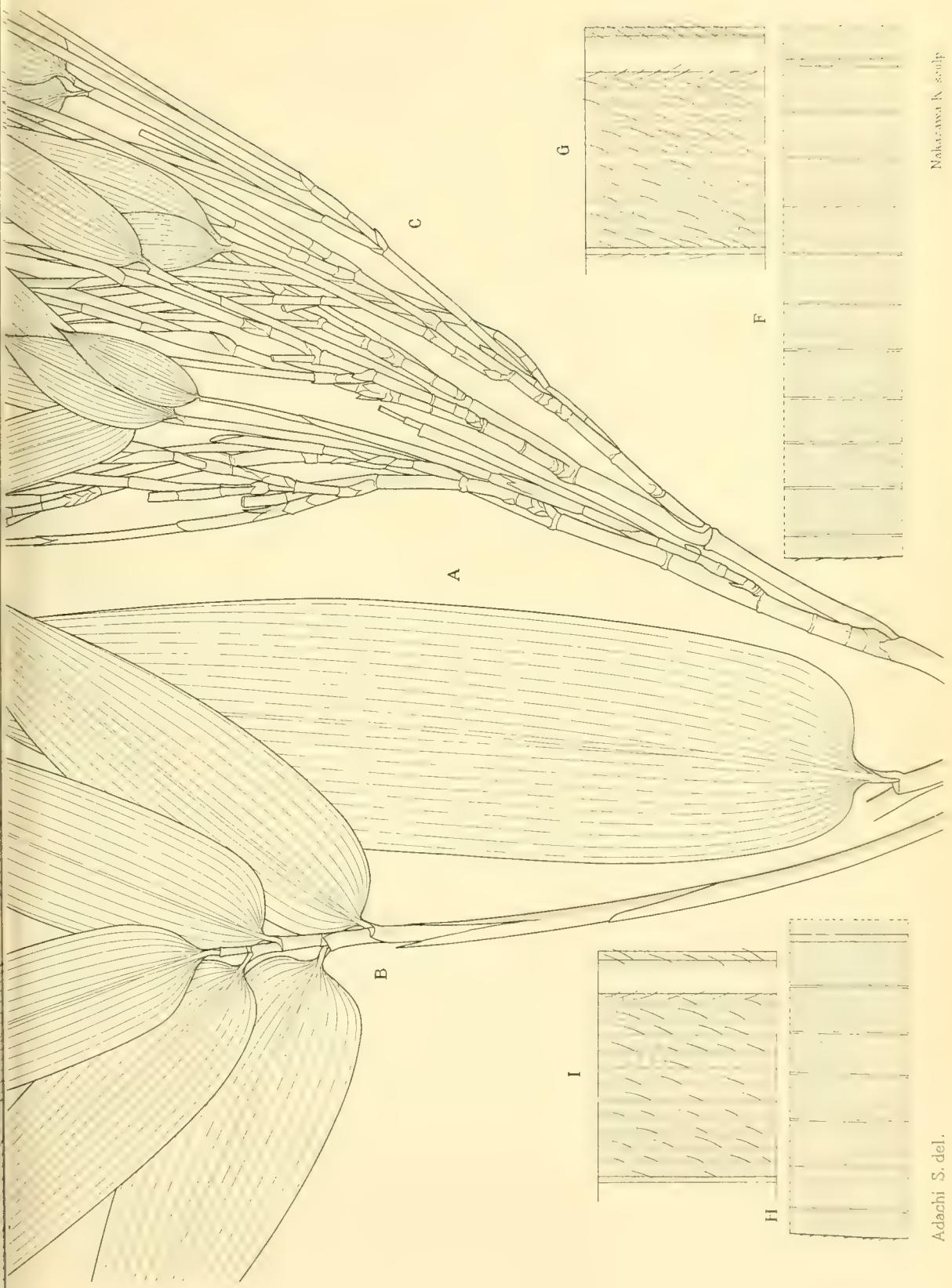
第 IX 圖 Tabula IX

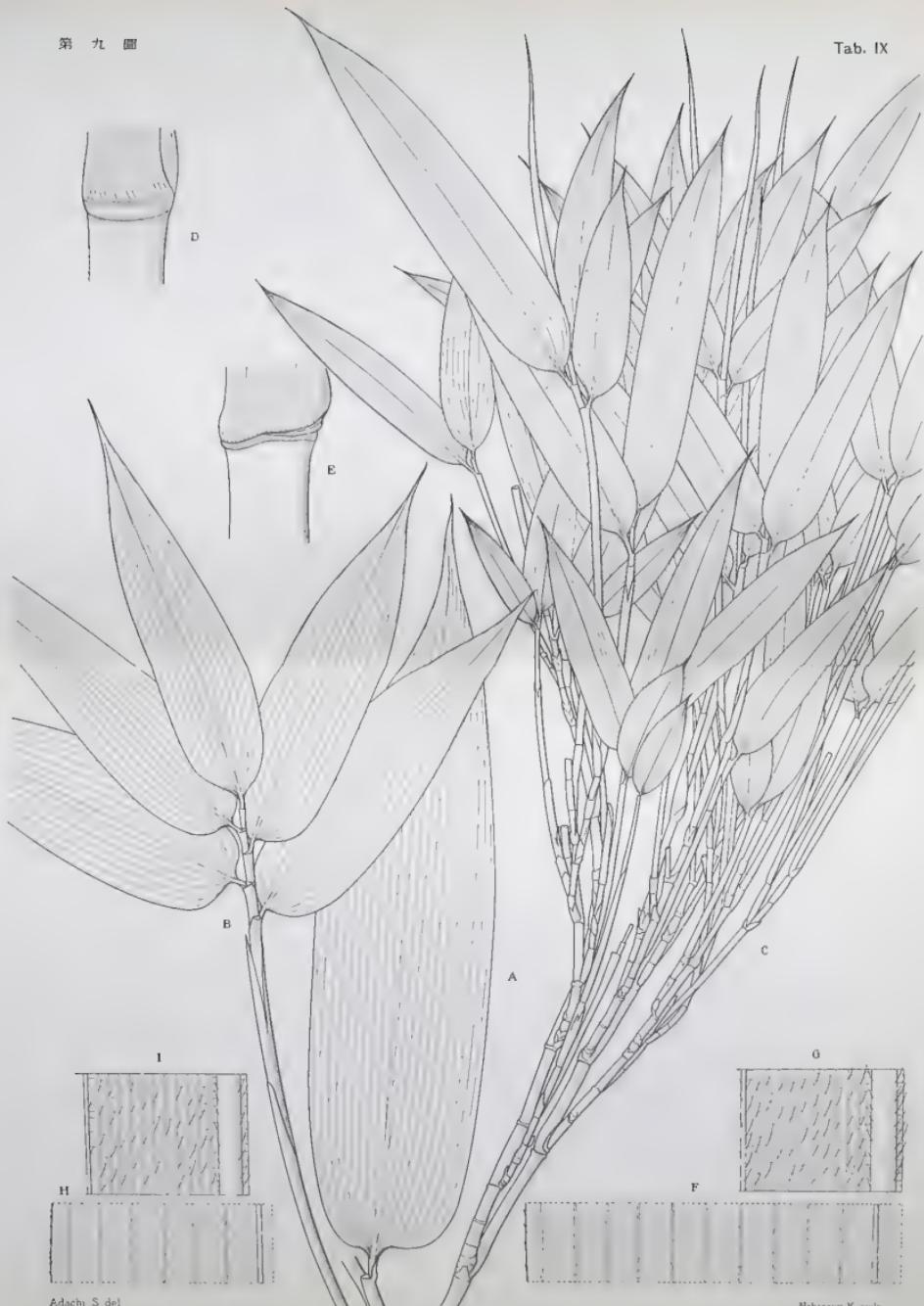
かうらいざさ

Sasa coreana NAKAI

A. 1年生ノ稈ノ葉 (自然大)	A. Folium culmi annui ($\times 1$)
B. 第1次ノ枝ノ上部 (自然大)	B. Pars superior rami primarii ($\times 1$)
C. 5年生ノ稈ノ上部 (自然大)	C. Pars superior culmi 5-ennis ($\times 1$)
D. 1年生ノ稈ノ節 (廓大)	D. Nodus culmi annui (auctus)
E. 第1次ノ枝ノ節 (廓大)	E. Nodus rami primarii (auctus)
F. 1年生ノ稈ノ葉ノ1部ヲ裏ヨリ見ル (廓大)	F. Pars folii ex culmo annuo, infra visa (aucta)
G. 1年生ノ稈ノ葉ノ中央部ノ1部ヲ裏ヨリ見ル (廓大)	G. Pars mediana folii ex culmo annuo, infra visa (valde aucta)
H. 第1次ノ枝ノ葉ノ1部ヲ裏ヨリ見ル (廓大)	H. Pars folii ex ramo primario, infra visa (aucta)
I. 第1次ノ枝ノ葉ノ中央部ノ1部ヲ裏ヨリ見ル (廓大)	I. Pars mediana folii ex ramo primario, infra visa (valde aucta)





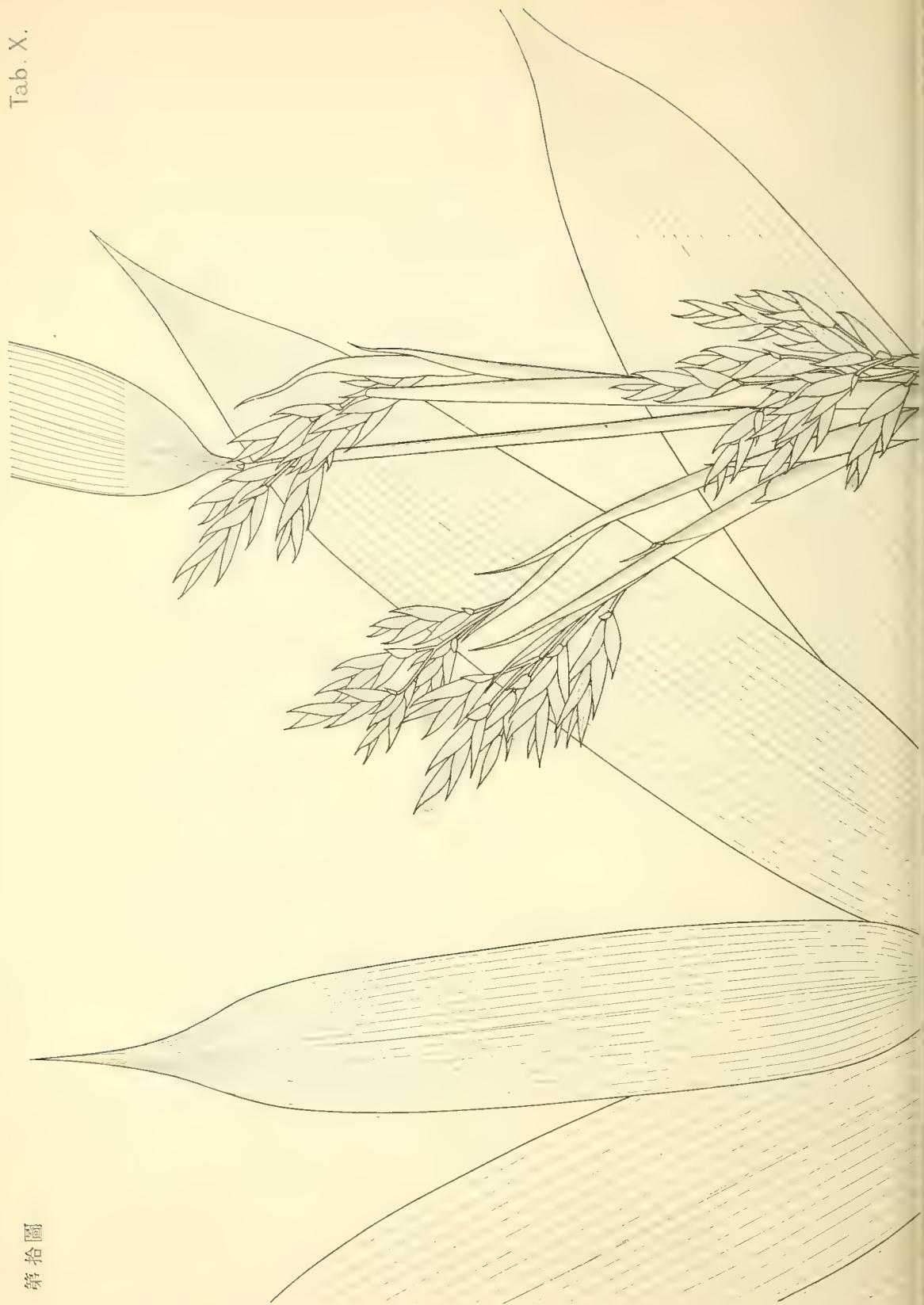


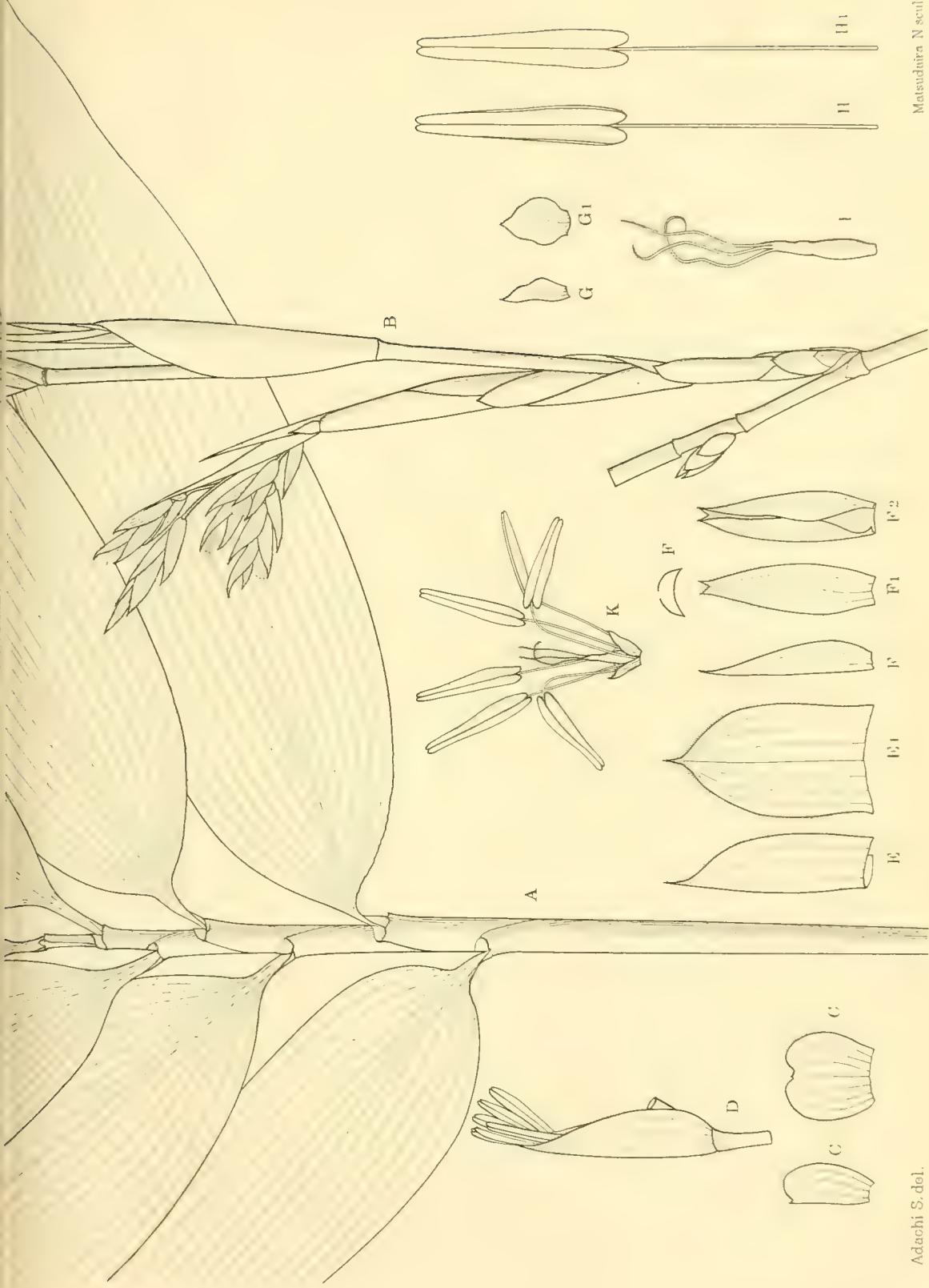
第 X 圖 Tabula X

ちしまざさ

Sasa kurilensis MAKINO & SHIBATA

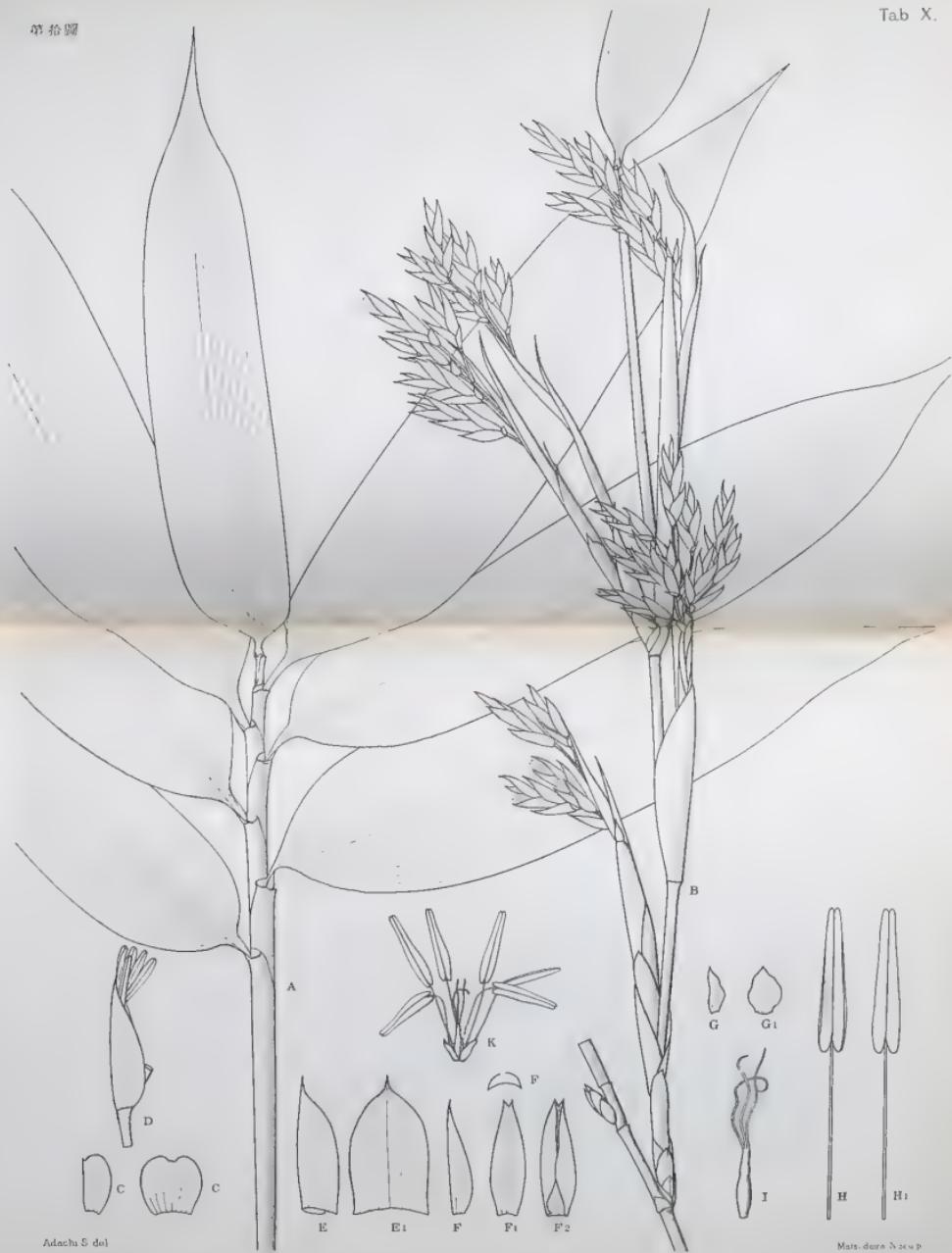
A. 1年生ノ稈ノ上部（自然大）	A. Pars superior culmi anni (×1)
B. 花序ヲ附クル第1次ノ枝 （自然大）	B. Ramus primarius cum inflores- centiis (×1)
C. 上方ノ苞ヲ側方ヨリ見ル (×3)	C. Bractea superior, laterali visa (×3)
C ₁ . 同上ヲ擴ゲテ背面ヨリ見ル (×3)	C ₁ . Ditto extensa et dorsali visa (×3)
D. 花ヲ側方ヨリ見ル (×3)	D. Flos laterali visus (×3)
E. 外穎ヲ側方ヨリ見ル (×3)	E. Gluma exterior, laterali visa (×3)
E ₁ . 同上ヲ背面ヨリ見ル (×3)	E ₁ . Ditto extensa et dorsali visa (×3)
F. 内穎ヲ側方ヨリ見ル (×3)	F. Gluma interior, laterali visa (×3)
F ₁ . 同上ヲ背面ヨリ見ル (×3)	F ₁ . Ditto, dorsali visa (×3)
F ₂ . 同上ヲ腹面ヨリ見ル (×3)	F ₂ . Ditto, ventrali visa (×3)
F ₃ . 内穎ノ横断面ノ模型	F ₃ . Diagramma sectionis glumæ in- terioris.
G. 花穎ヲ側方ヨリ見ル (×6)	G. Palea, laterali visa (×6)
G ₁ . 同上ヲ背面ヨリ見ル (×6)	G ₁ . Ditto, dorsali visa (×6)
H. 雄蕊ヲ腹面ヨリ見ル (×6)	H. Stamen, ventrali visum (×6)
H ₁ . 同上ヲ背面ヨリ見ル (×6)	H ₁ . Ditto, dorsali visum (×6)
I. 雌蕊 (×6)	I. Pistillum (×6)
K. 内外穎ヲ除キタル花 (×3)	K. Flos cum glumis seductis (×3)





Adachi S. del.

Matsuura N. sculp

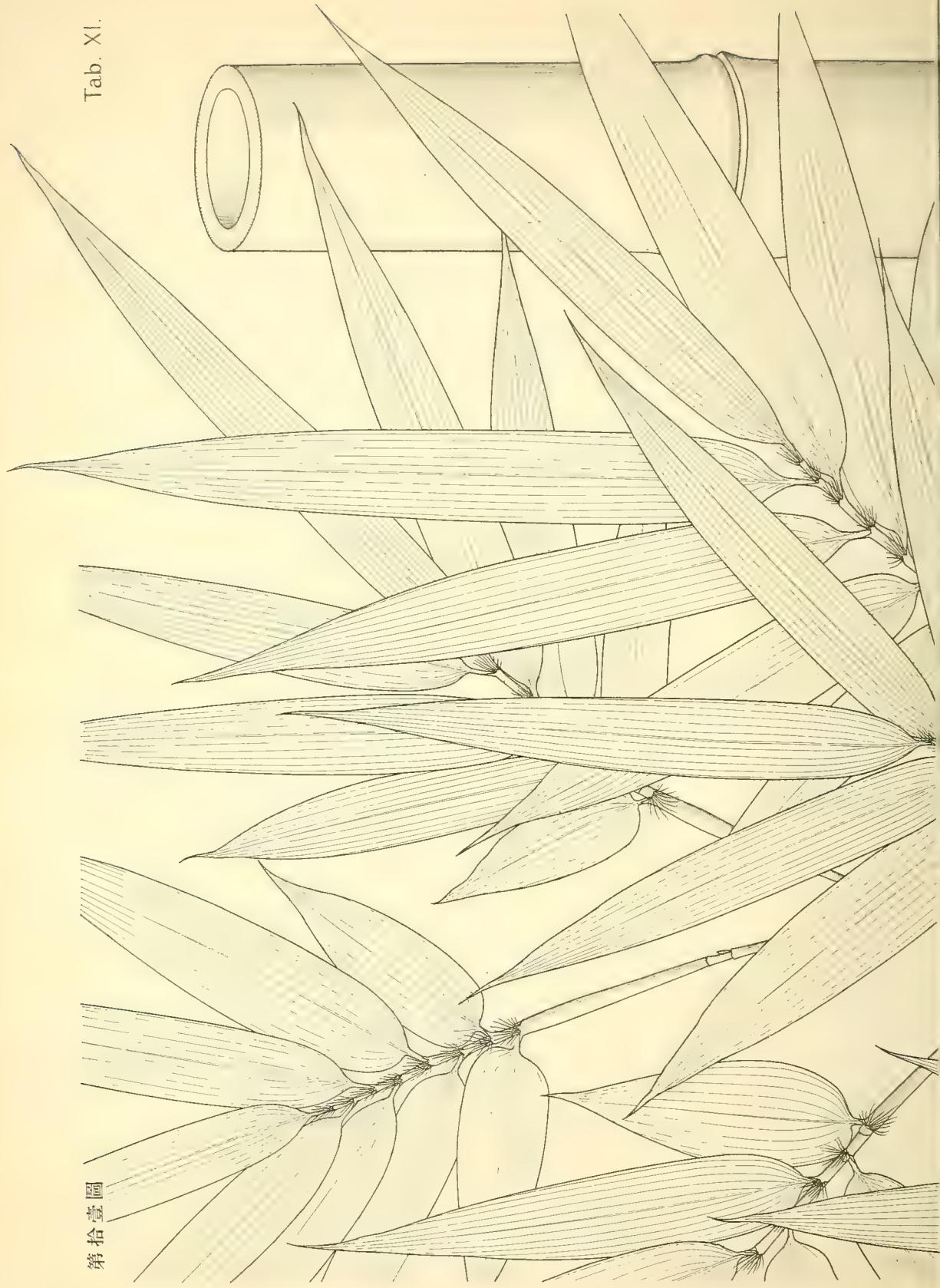


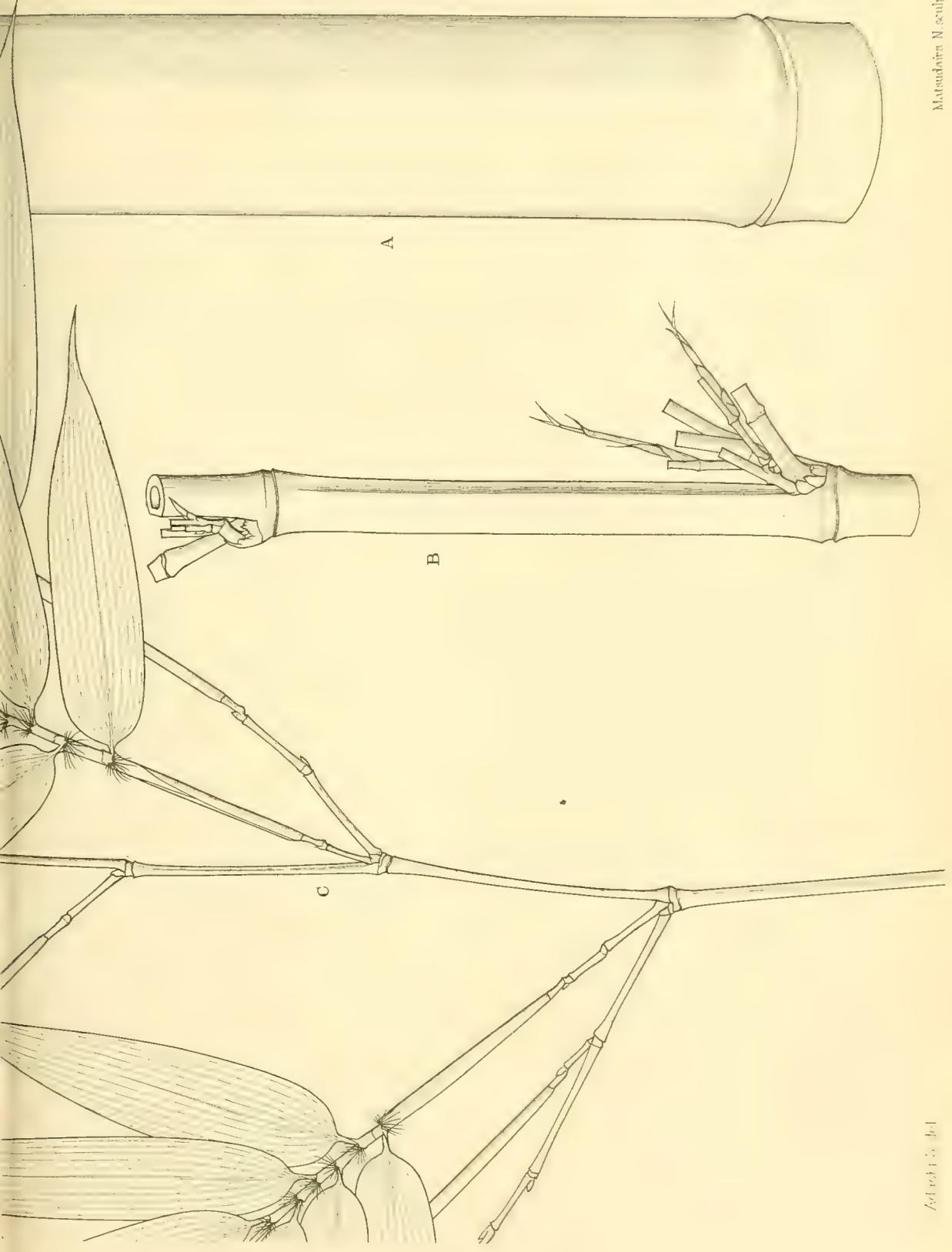
第 XI 圖 Tabula XI

ま だ け

Phyllostachys reticulata Koch

A. 中形ノ稈ノ1部 (自然大)	A. Pars culmi mediocris ($\times 1$)
B. 枝ノ1部 (自然大)	B. Pars rami ($\times 1$)
C. 小枝 (自然大)	C. Ramuli ($\times 1$)





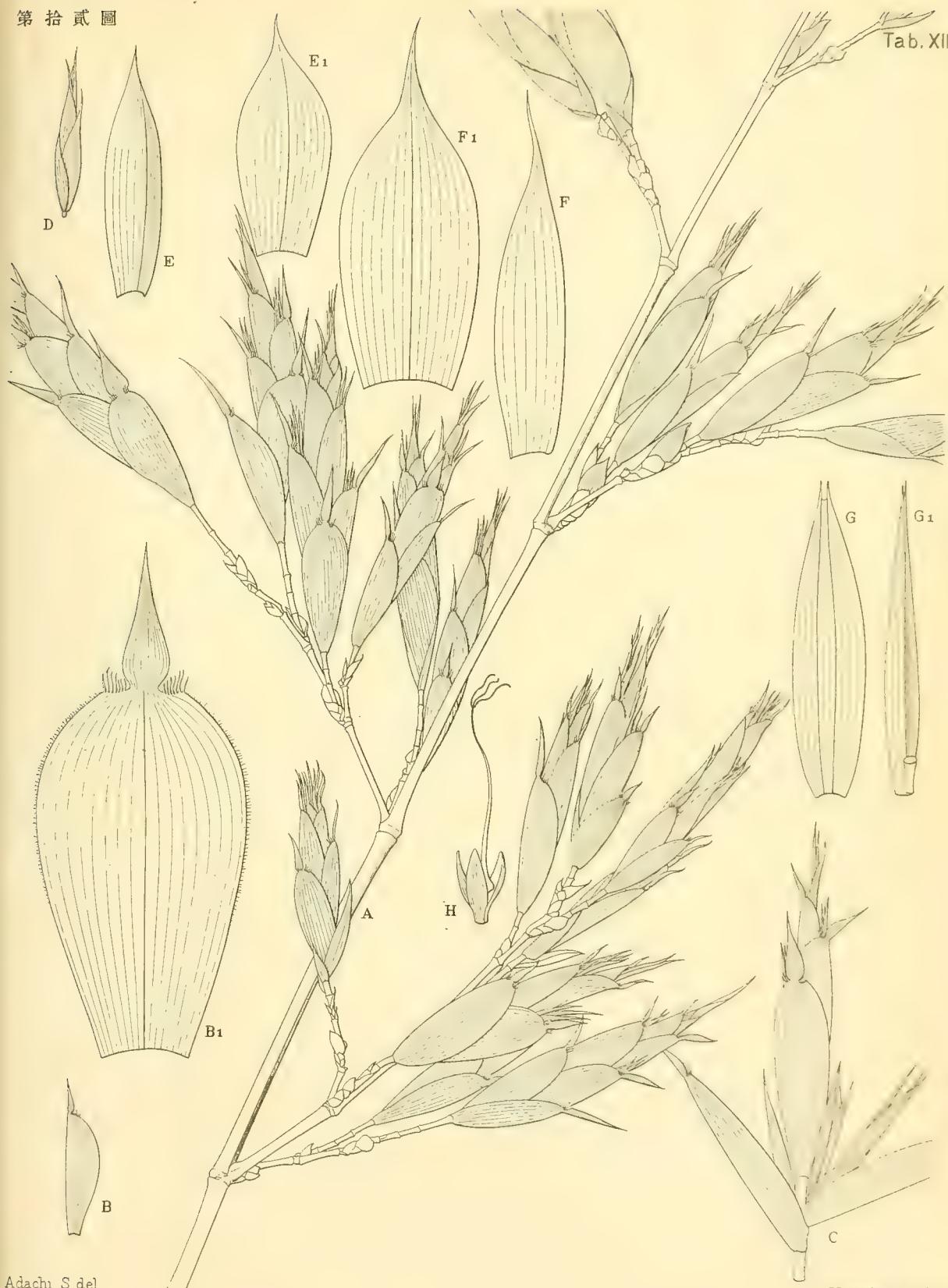


第 XII 圖 Tabula XII

ま だ け

Phyllostachys reticulata Koch

A. 未熟ノ果實ヲ附クル枝 (自然大)	A. Ramulus cum fructibus immaturatis ($\times 1$)
B. 茴ヲ側方ヨリ見ル (自然大)	B. Bractea, laterali visa ($\times 1$)
B ₁ . 茴ヲ擴ゲテ背面ヨリ見ル ($\times 3$)	B ₁ . Ditto extensa et dorsali visa ($\times 3$)
C. 花序ノ下方ノ苞ヲ擴ゲテ小花穂ヲ露出ス ($\times 1\frac{1}{2}$)	C. Inflorescentia, ejus basi cum bracteis extensis et spiculas exposit ($\times 1\frac{1}{2}$)
D. 小花穂 ($\times 1$)	D. Spicula ($\times 1$)
E. 小苞ヲ側方ヨリ見ル	E. Bracteola, laterali visa ($\times 3$)
E ₁ . 小苞ヲ擴ゲテ背面ヨリ見ル ($\times 3$)	E ₁ . Ditto extensa et dorsali visa ($\times 3$)
F. 外穎ヲ側方ヨリ見ル ($\times 3$)	F. Gluma exterior, laterali visa ($\times 3$)
F ₁ . 外穎ヲ擴ゲテ背面ヨリ見ル ($\times 3$)	F ₁ . Ditto extensa et dorsali visa ($\times 3$)
G. 内穎ヲ背面ヨリ見ル ($\times 3$)	G. Gluma interior, dorsali visa ($\times 3$)
G ₁ . 小花穂ノ花軸ノ1節ヲ伴フ内穎ヲ側方ヨリ見ル ($\times 3$)	G ₁ . Gitto cum segmento rachis, laterali visa ($\times 3$)
H. 花穎ヲ伴フ未熟ノ果實 ($\times 3$)	H. Fructus immaturatus cum paleis ($\times 3$)

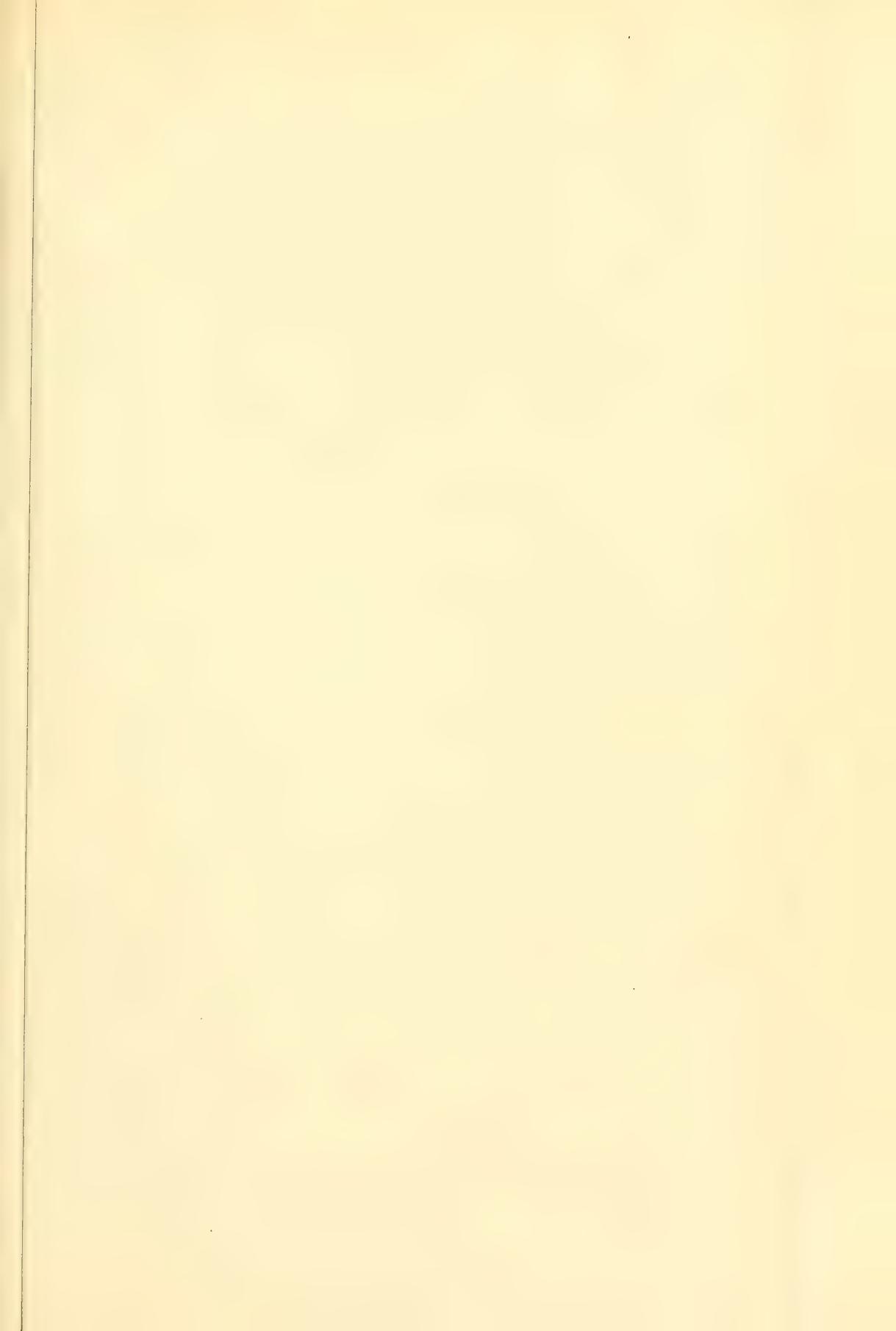


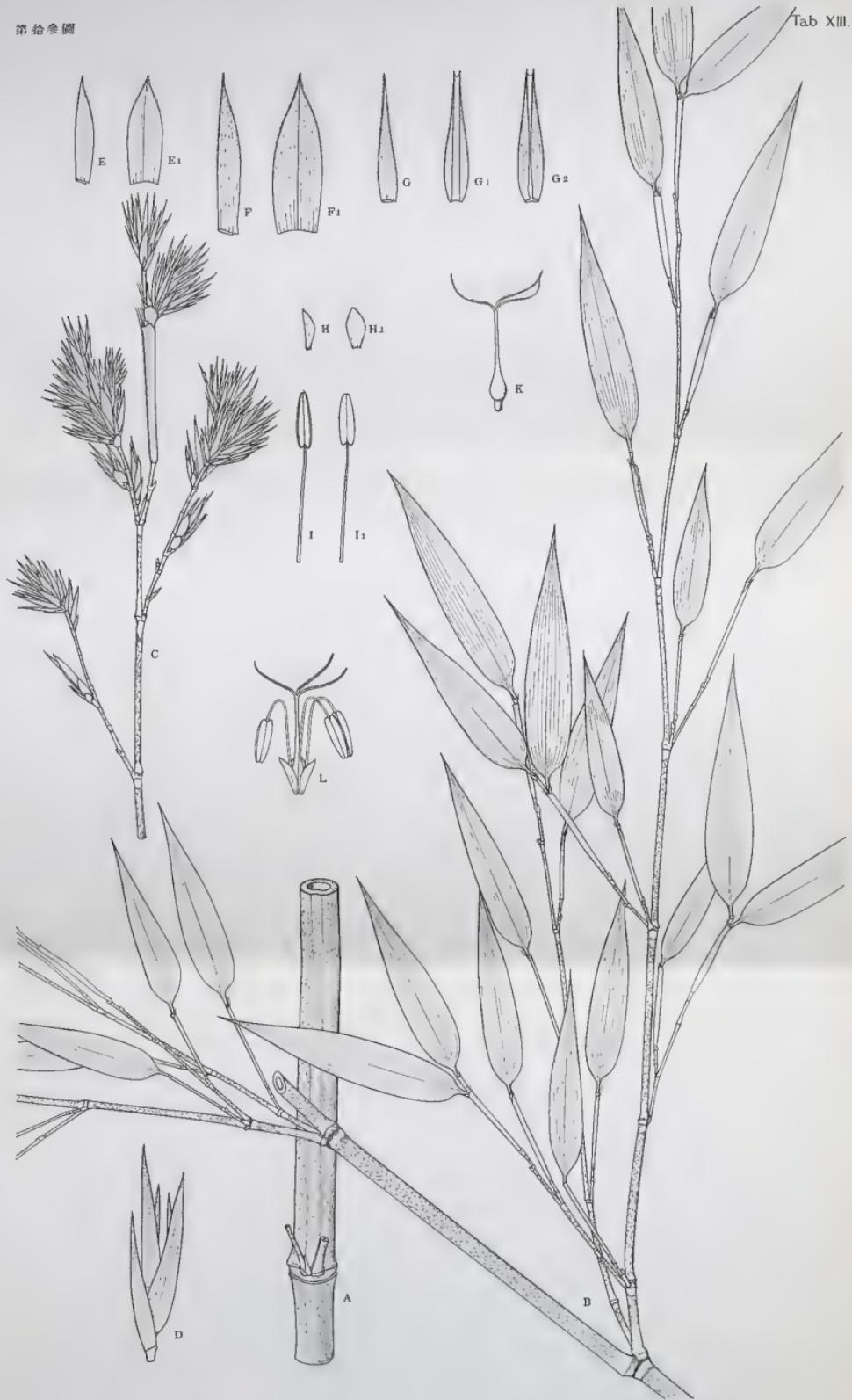
第 XIII 圖 Tabula XIII

ごまだけ

Phyllostachys nigra MUNRO
forma *punctata* NAKAI

A. 小型ノ程ノ1部 ($\times 1$)	A. Pars culmi minoris ($\times 1$)
B. 枝ノ1部 ($\times 1$)	B. Pars rami ($\times 1$)
C. 花序ヲ附クル枝 ($\times 1$)	C. Ramulus cum inflorescentia ($\times 1$)
D. 小花穂 ($\times 3$)	D. Spicula ($\times 3$)
E. 小苞ヲ側方ヨリ見ル ($\times 3$)	E. Bracteola, laterali visa ($\times 3$)
E ₁ . 小苞ヲ擴グテ背面ヨリ見ル ($\times 3$)	E ₁ . Ditto extensa et dorsali visa ($\times 3$)
F. 外穎ヲ側方ヨリ見ル ($\times 3$)	F. Gluma exterior, laterali visa ($\times 3$)
F ₁ . 外穎ヲ擴グテ背面ヨリ見ル ($\times 3$)	F ₁ . Ditto extensa et dorsali visa
G. 内穎ヲ側方ヨリ見ル ($\times 3$)	G. Gluma interior, laterali visa ($\times 3$)
G ₁ . 内穎ヲ背面ヨリ見ル ($\times 3$)	G ₁ . Ditto, dorsali visa ($\times 3$)
G ₂ . 内穎ヲ腹面ヨリ見ル ($\times 3$)	G ₂ . Ditto ventrali visa ($\times 3$)
H. 花穎ヲ側方ヨリ見ル ($\times 3$)	H. Palea, laterali visa ($\times 3$)
H ₁ . 花穎ヲ背面ヨリ見ル ($\times 3$)	H ₁ . Palea, dorsali visa ($\times 3$)
I. 雄蕊ヲ側方ヨリ見ル ($\times 3$)	I. Stamen, ventrali visum ($\times 3$)
I ₁ . 雄蕊ヲ背面ヨリ見ル ($\times 3$)	I ₁ . Ditto, dorsali visum ($\times 3$)
K. 雌蕊 ($\times 3$)	K. Pistillum ($\times 3$)
L. 内外穎ヲ除キタル花 ($\times 3$)	L. Flos cum glumis seductis ($\times 3$)



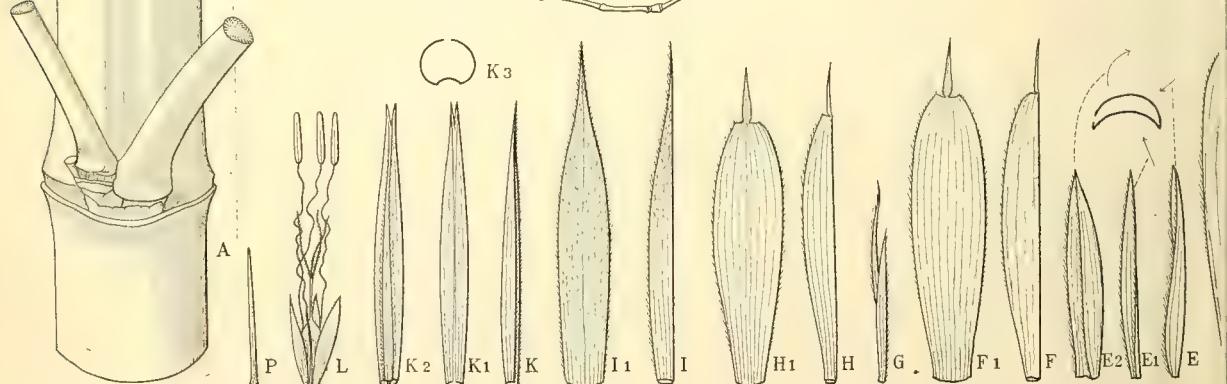
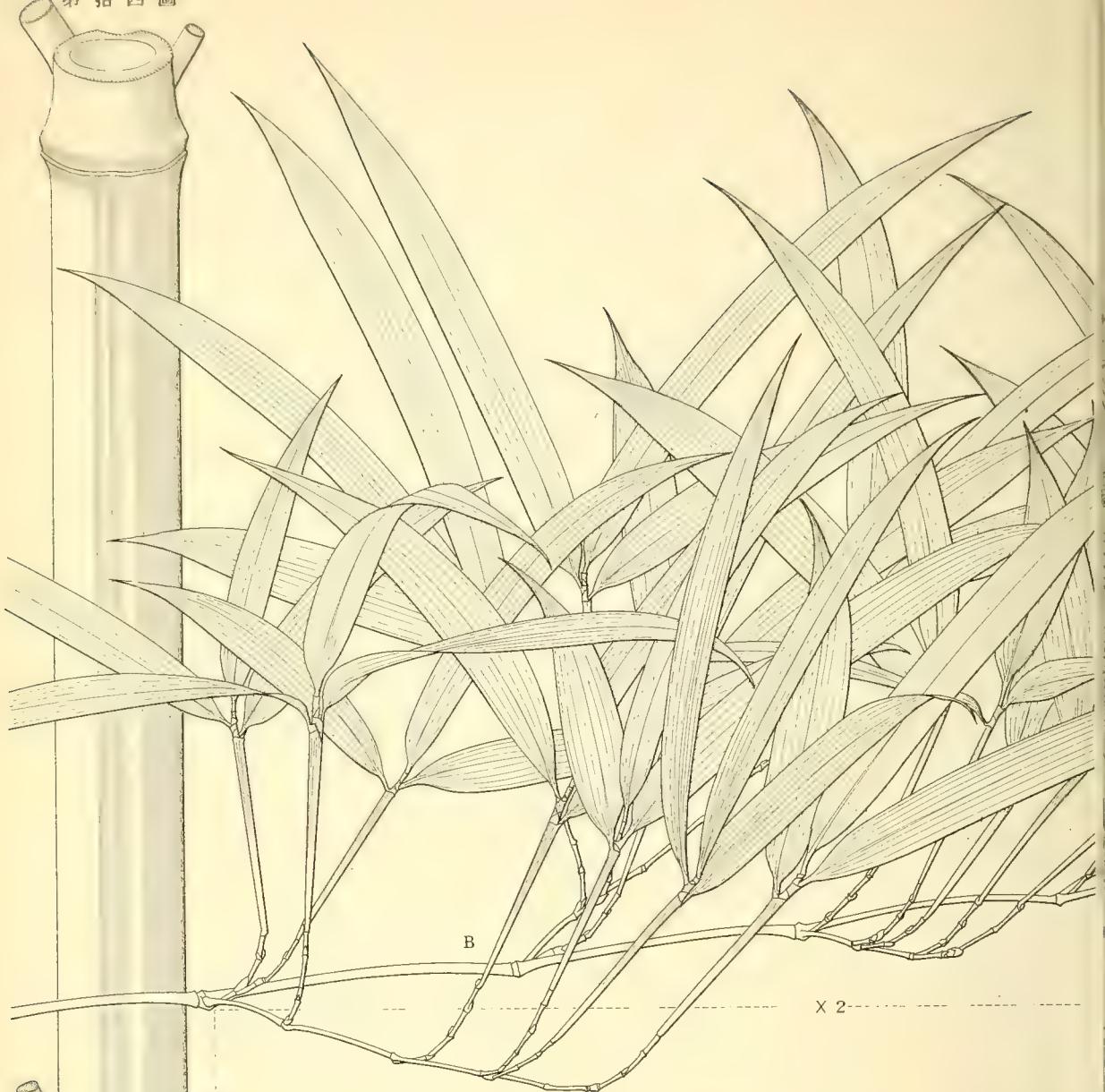


第 XIV 圖 Tabula XIV

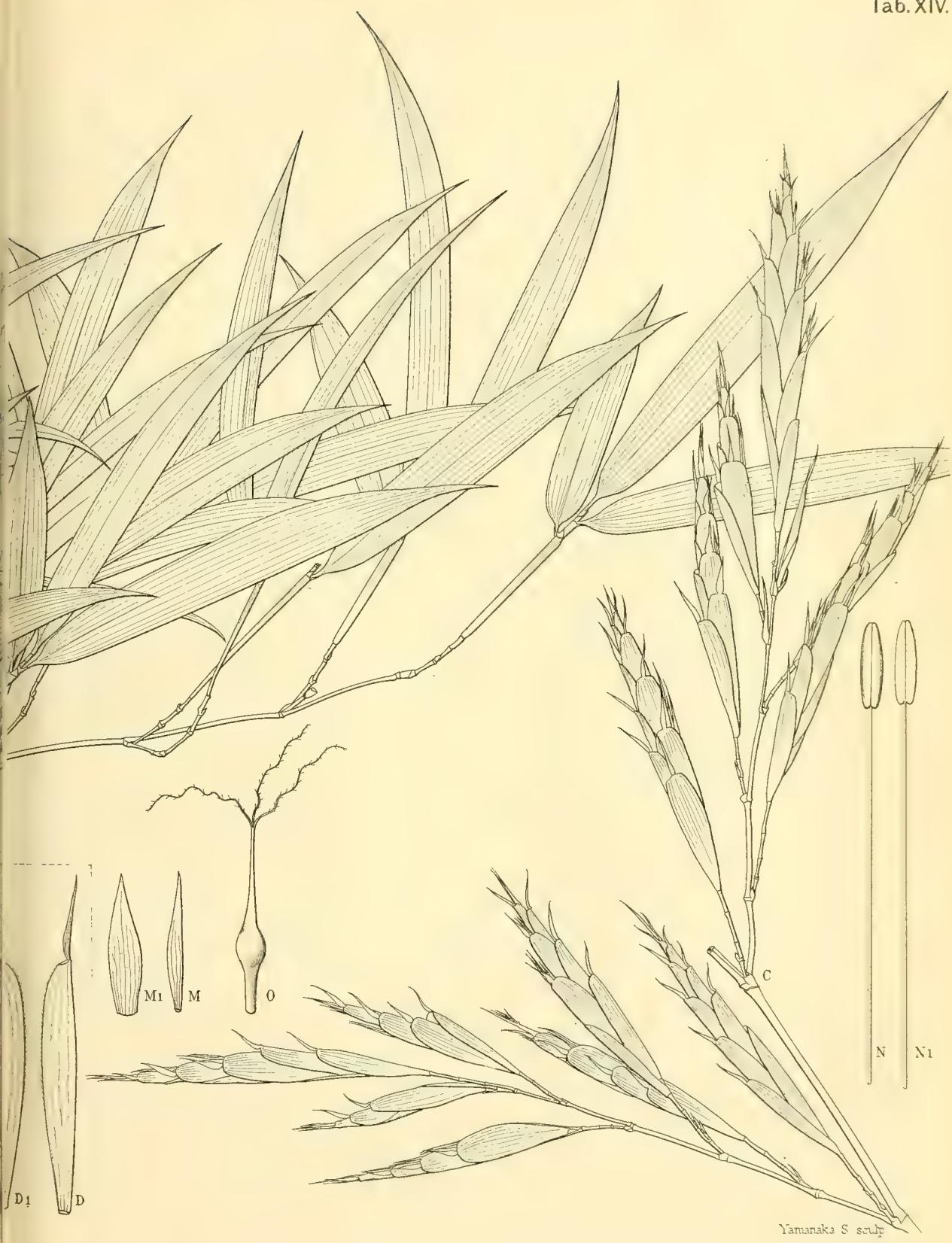
まうそうちく

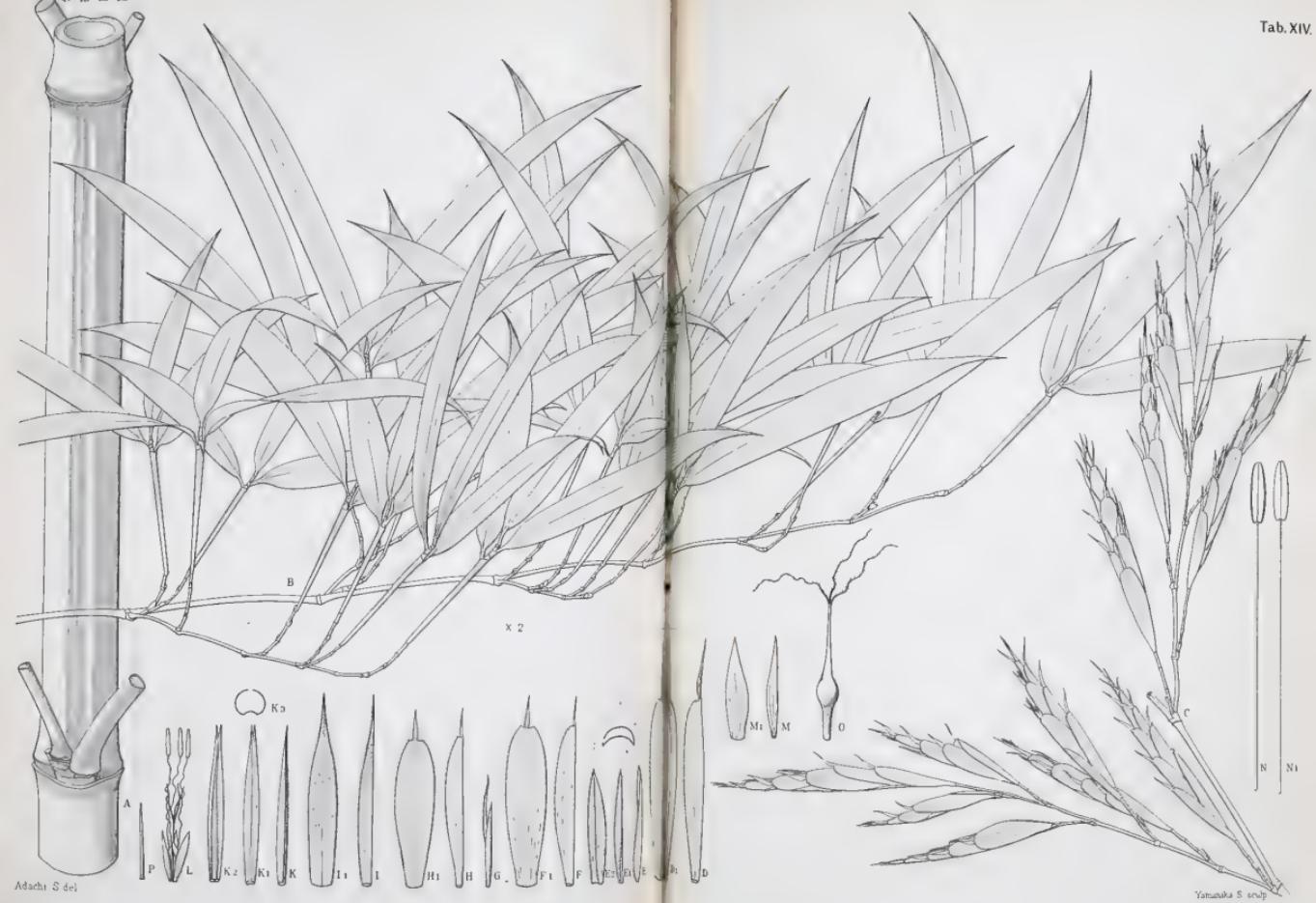
Phyllostachys pubescens MAZEL

A. 小型ノ稈ノ1部 (×1)	A. Pars culmi minoris (×1)
B. 枝ノ先ノ部 (×1)	B. Ramuli extremi (×1)
C. 花序ヲ附クル小枝 (×1)	C. Ramulus cum inflorescentiis (×1)
D. 苞ヲ側方ヨリ見ル (×2)	D. Bractea, laterali visa (×2)
D ₁ . 苞ヲ擴ゲテ背面ヨリ見ル (×2)	D ₁ . Ditto extensa et dorsali visa (×2)
E. 小花穂ノ最下部ノ無性花ノ穎ヲ側 背面ヨリ見ル (×2)	E. Gluma floris vacui infimi spi- culæ, dorsi-laterali visa (×2)
E ₁ . 同上ヲ背面ヨリ見ル (×2)	E ₁ . Ditto, dorsali visa (×2)
E ₂ . 同上ヲ腹面ヨリ見ル (×2)	E ₂ . Ditto, ventrali visa (×2)
F. 第1小苞ヲ側方ヨリ見ル (×2)	F. Bracteola primaria, laterali visa (×2)
F ₁ . 第1小苞ヲ擴ゲテ背面ヨリ見ル (×2)	F ₁ . Ditto extensa et dorsali visa (×2)
G. 下ヨリ2番目ノ無性花 (×2)	G. Flos vacuus secundarius (×2)
H. 第2小苞ヲ側方ヨリ見ル (×2)	H. Bracteola secundaria, laterali visa (×2)
H ₁ . 第2小苞ヲ擴ゲテ背面ヨリ見ル (×2)	H ₁ . Ditto extensa et dorsali visa (×2)
I. 完全花ノ外穎ヲ側方ヨリ見ル (×2)	I. Gluma exterior floris fertilis, laterali visa (×2)
I ₁ . 同上ヲ背面ヨリ見ル (×2)	I ₁ . Ditto, dorsali visa (×2)
K. 同上ノ内穎ヲ側方ヨリ見ル (×2)	K. Gluma interior floris fertilis, laterali visa (×2)
K ₁ . 同上ヲ背面ヨリ見ル (×2)	K ₁ . Ditto, dorsali visa (×2)
K ₂ . 同上ヲ腹面ヨリ見ル (×2)	K ₂ . Ditto, ventrali visa (×2)
L. 内外穎ヲ除去シタル完全花 (×2)	L. Flos cum glumis seductis (×2)
M. 花穎ヲ側方ヨリ見ル (×4)	M. Palea, laterali visa (×4)
M ₁ . 花穎ヲ背面ヨリ見ル (×4)	M ₁ . Ditto, dorsali visa (×4)
N. 雄蕊ヲ腹面ヨリ見ル (×4)	N. Stamen, ventrali visum (×4)
N ₁ . 雄蕊ヲ背面ヨリ見ル (×4)	N ₁ . Stamen, dorsali visum (×4)
O. 雌蕊 (×4)	O. Pistillum (×4)
P. 最先端ノ無性花 (×2)	P. Flos vacuus terminalis (×2)



Adachi S. del.



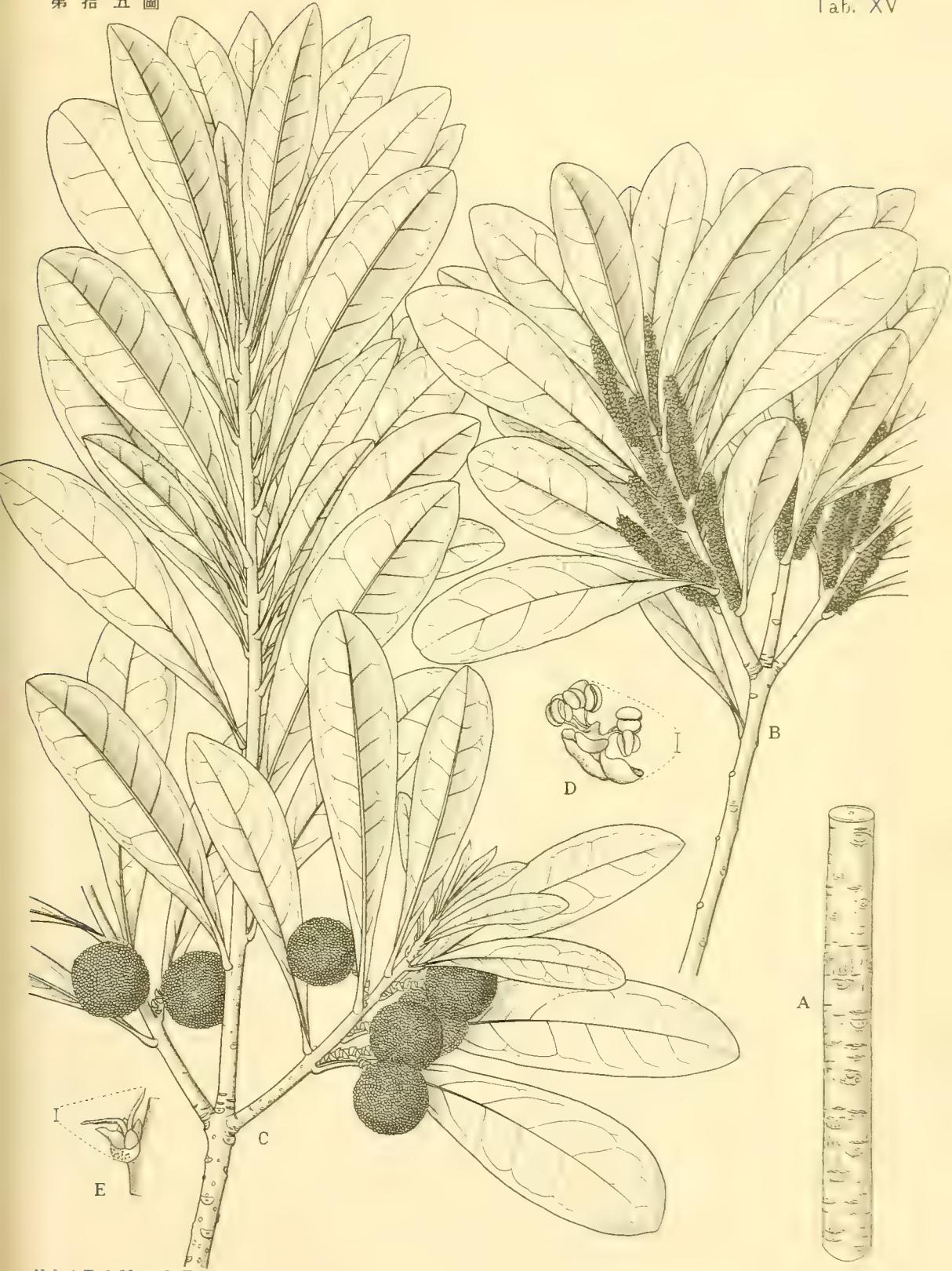


第 XV 圖 Tabula XV

やまもも

Myrica rubra SIEBOLD & ZUCCARINI

A. 四年生ノ枝 (自然大)	A. Pars rami quartannis (mag. nat.)
B. 雄花穂ヲ附クル枝 (自然大)	B. Ramuli cum amentis masculis (mag. nat.)
C. 果實ヲ附クル枝 (自然大)	C. Ramuli cum fructibus maturatis (mag. nat.)
D. 雄花 (廓大)	D. Flos masculus (auctus)
E. 雌花 (廓大)	E. Flos fæmineus (mag. nat.)



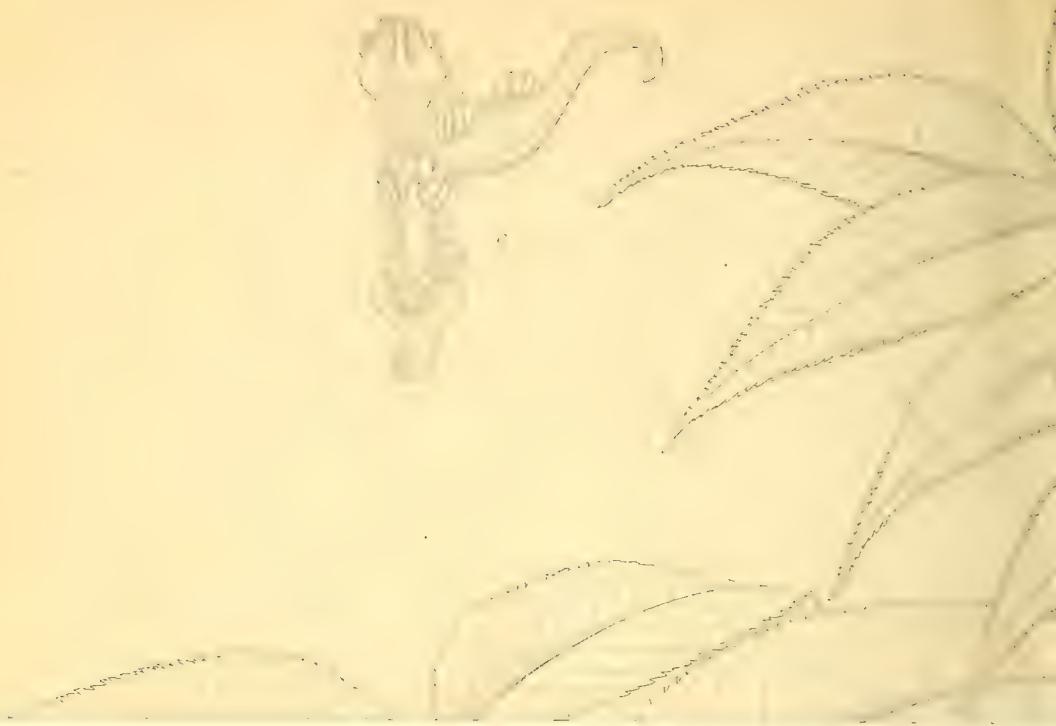
第 XVI 圖 Tabula XVI
の ぐ る み

Platycarya strobilacea SIEBOLD & ZUCCARINI

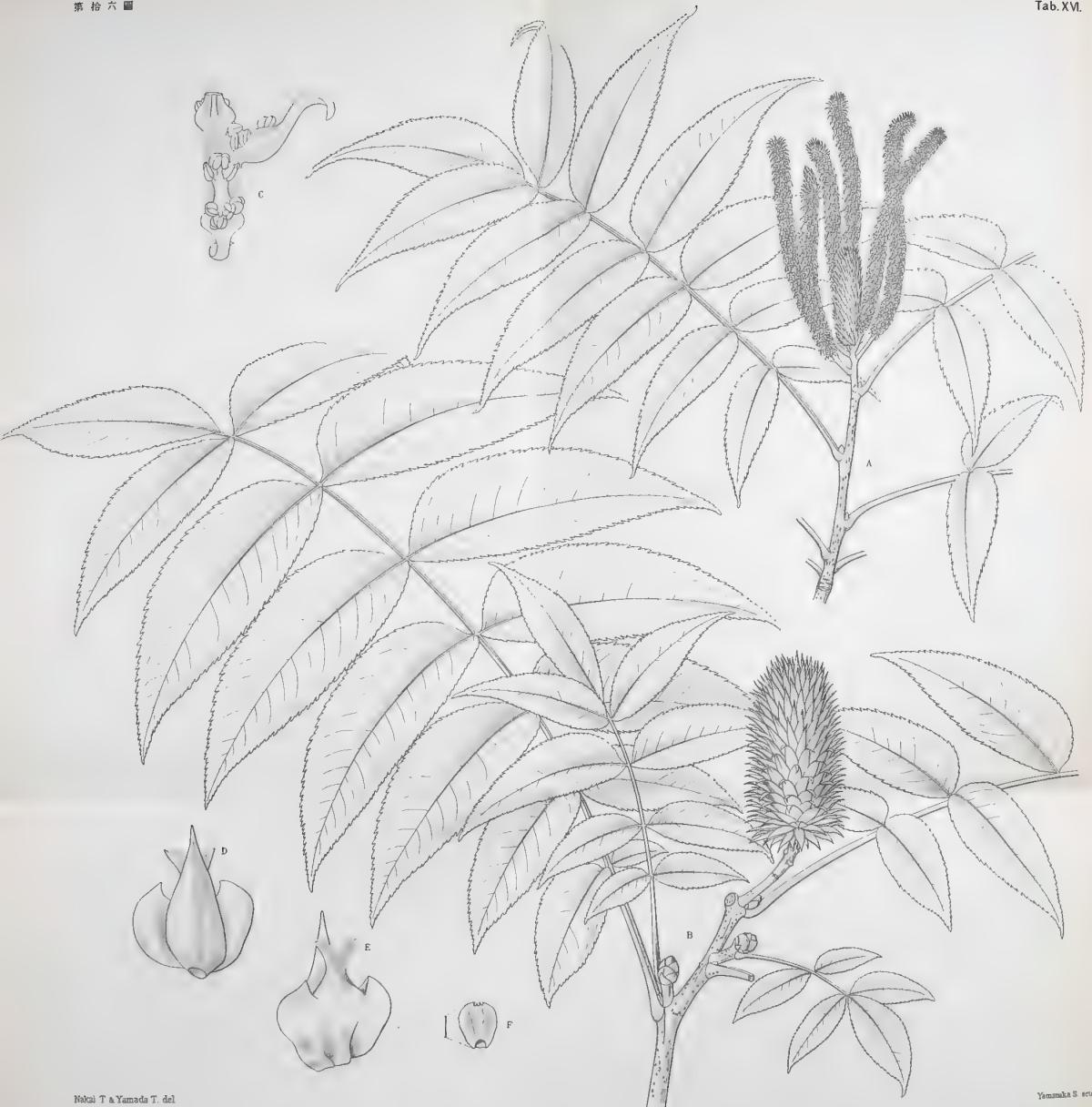
A. 花序ヲ附クル枝 ($\times 1$)	A. Ramus cum foliis et inflorescentia ($\times 1$)
B. 果序ヲ附クル枝 ($\times 1$)	B. Ramus cum foliis et infructescientia ($\times 1$)
C. 雄花 ($\times 18$)	C. Flos masculus ($\times 18$)
D. 雌花ヲ背面ヨリ見ル ($\times 18$)	D. Flos faemineus, dorsali visus ($\times 18$)
E. 雌花ヲ腹面ヨリ見ル ($\times 18$)	E. Idem, ventrali visus ($\times 18$)
F. 果實 (約 2 倍大)	F. Fructus, subdupo auctus.



第 捌 六 圖







第 XVII 圖 Tabula XVII

まんしうぐるみ

Juglans mandshurica MAXIMOWICZ

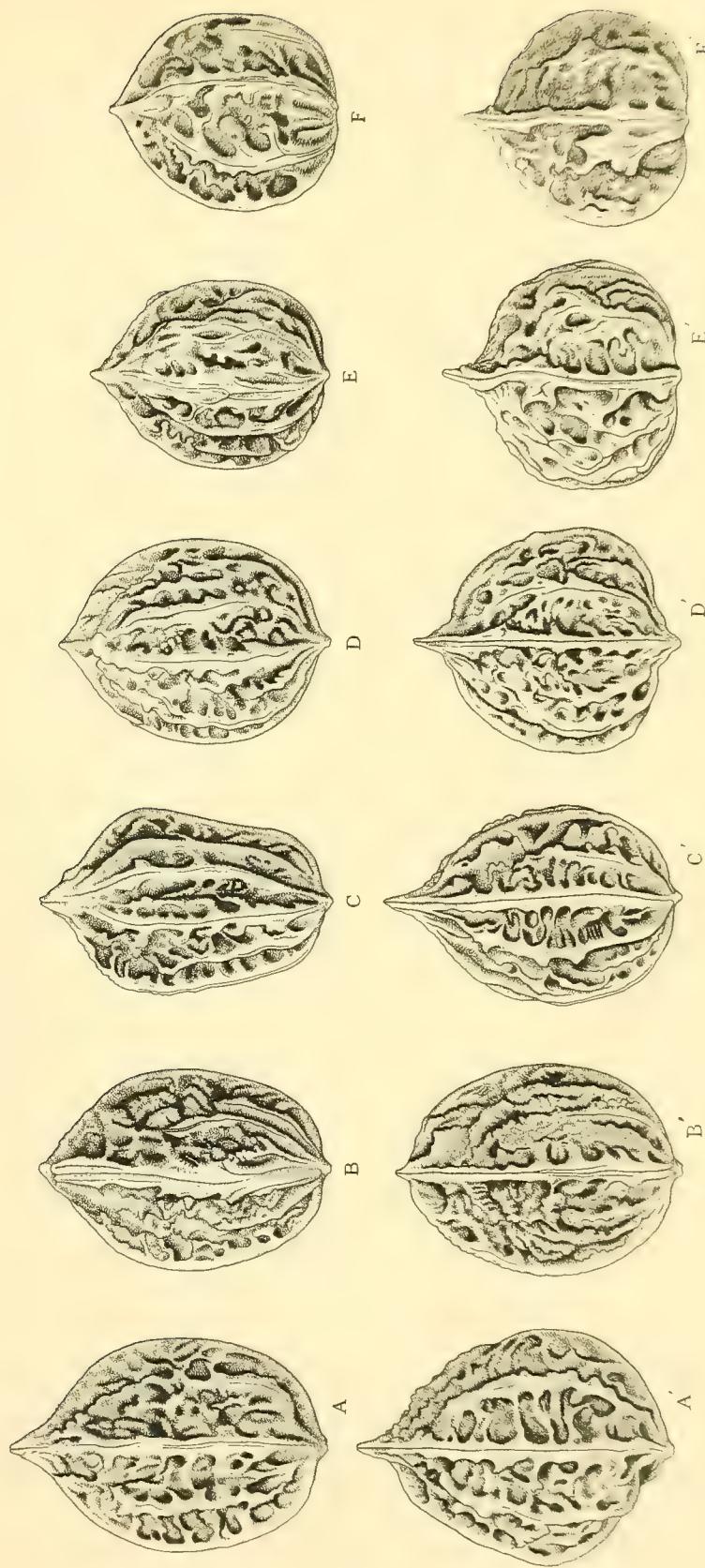
A. 未ダ開カザル葉ト蓄トヲ附クル枝 (×1)	A. Ramus cum foliis etiamnunc conduplicatis et alabastris (×1)
B. 葉ト花序トヲ附クル枝 (×1)	B. Ramus cum foliis et inflores- centiis (×1)
C. 羽片ヲ裏ヨリ見ル (×1)	C. Foliolum infra visum (×1)
D. 葉ト果序トヲ附クル枝 (×1)	D. Ramus cum foliis et infructes- centia (×1)
E. 果序 (×1)	E. Infrutescens (×1)
F. 雄花 (×5)	F. Flos masculus (×5)
G. 雄花ヲ背面ヨリ見ル (×5)	G. Flos masculus, dorsali visus (×5)
H. 雄蕊 (×6)	H. Variæ formæ staminum (×6)
I. 雌花 (廓大)	I. Flos fæmineus, auctus.
K. 核 (×1)	K. Nux (×1)
L. 核ノ内面 (×1)	L. Interior nucis (×1)

第 XVIII 圖 Tabula XVIII

まんしゅぐるみ

Juglans mandshurica MAXIMOWICZ

A—F. 種々ノ形ノ核ノ面 ($\times 1$) A—F. Facies variarum formarum
nucum ($\times 1$)
A'—F'. 種々ノ形ノ核ヲ側方ヨリ見 A'—F'. Aedem laterali visæ ($\times 1$)
 ν ($\times 1$)

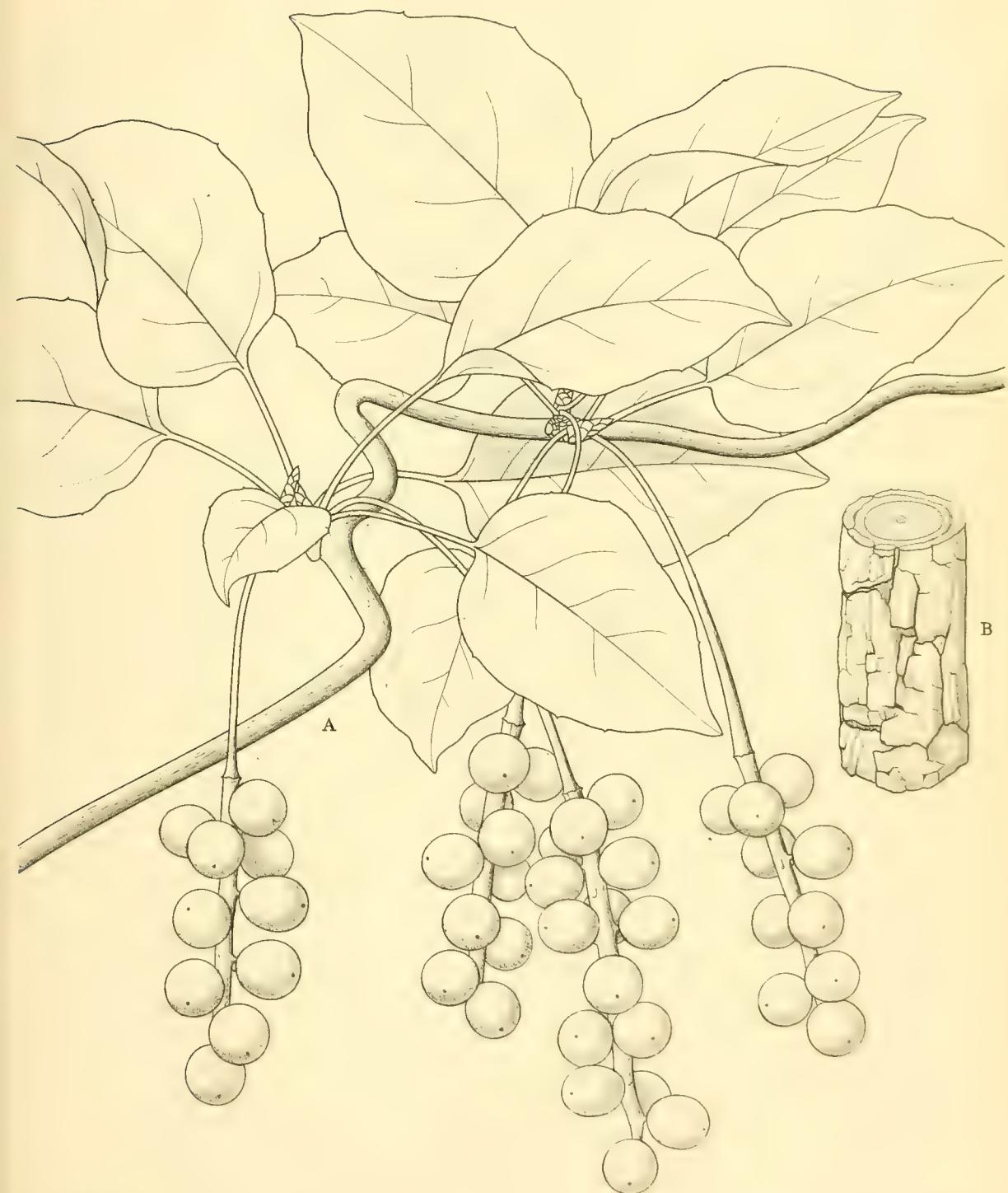


第 XIX 圖 Tabula XIX

まつぶさ

Schizandra nigra MAXIMOWICZ

A. 果序ト枝トヲ附クル枝 ($\times 1$)	A. Ramus cum infructescentiis et foliis ($\times 1$)
B. 老樹ノ莖ノ 1 部 ($\times 1$)	B. Pars caulis vetusti ($\times 1$)



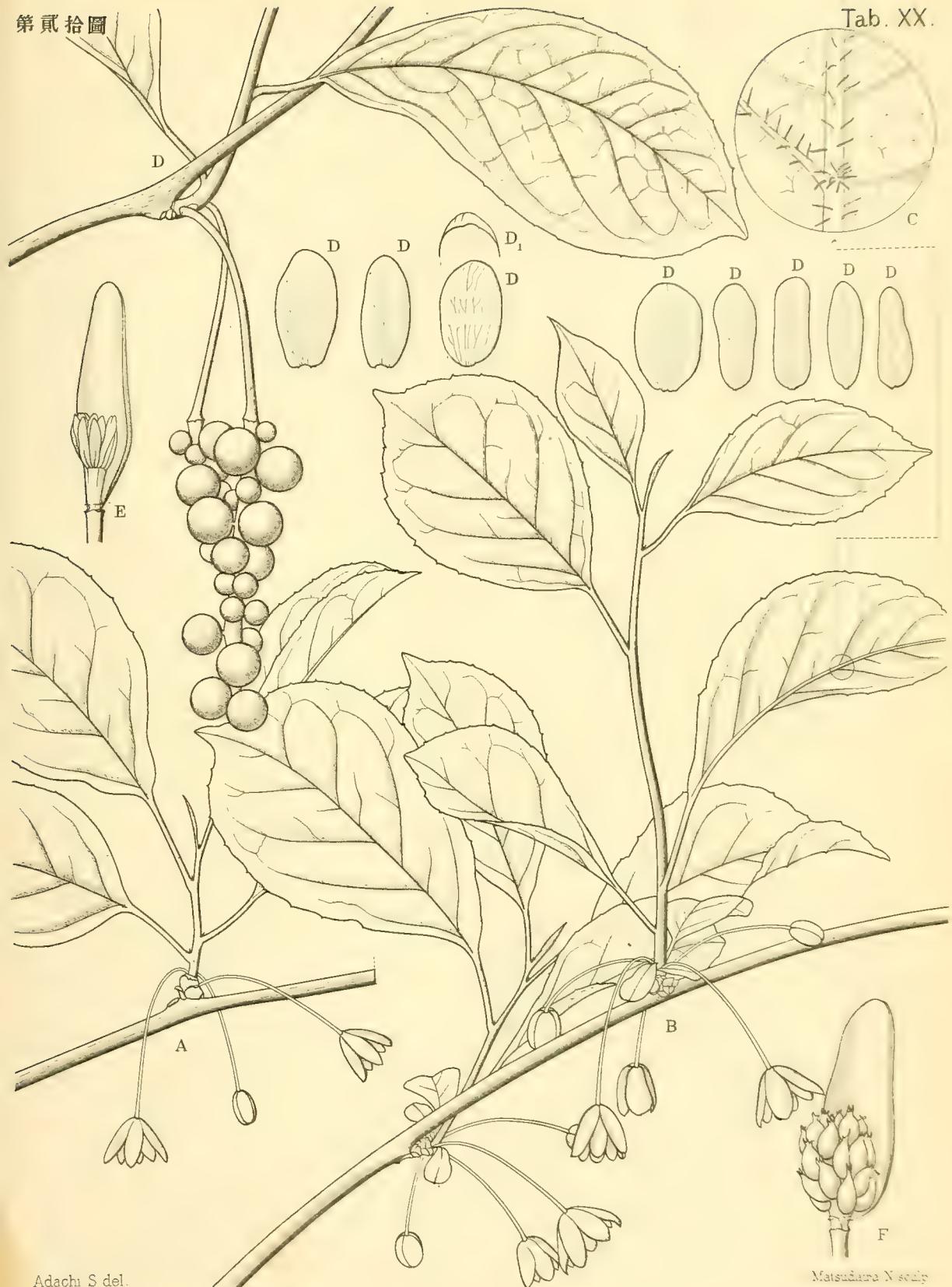
第 XX 圖 Tabula XX

てうせんごみし (朝鮮五味子)

Schizandra chinensis BAILLON

A. 葉ト雄花トヲ附クル枝 ($\times 1$)	A. Ramus cum foliis et floribus masculis ($\times 1$)
B. 葉ト雌花トヲ附クル枝 ($\times 1$)	B. Ramus cum foliis et floribus fæmineis ($\times 1$)
C. 葉ノ裏面ノ 1 部 ($\times 1$)	C. Pars paginæ inferioris ($\times 1$)
D. 花被ヲ背面ヨリ見ル ($\times 2$)	D. Tepala, dorsali visa ($\times 2$)
D ₁ . 花被ノ上部ヲ内側ヨリ見ル ($\times 2$)	D ₁ . Pars superior sepali, intus visa ($\times 2$)
E. 雄蕊群ト 1 個ノ花被 ($\times 4$)	E. Stamina et tepalum unicum ($\times 4$)
F. 子房群ト 1 個ノ花被 ($\times 1$)	F. Carpella et tepalum unicum ($\times 4$)

Tab. XX.



第貳拾圖

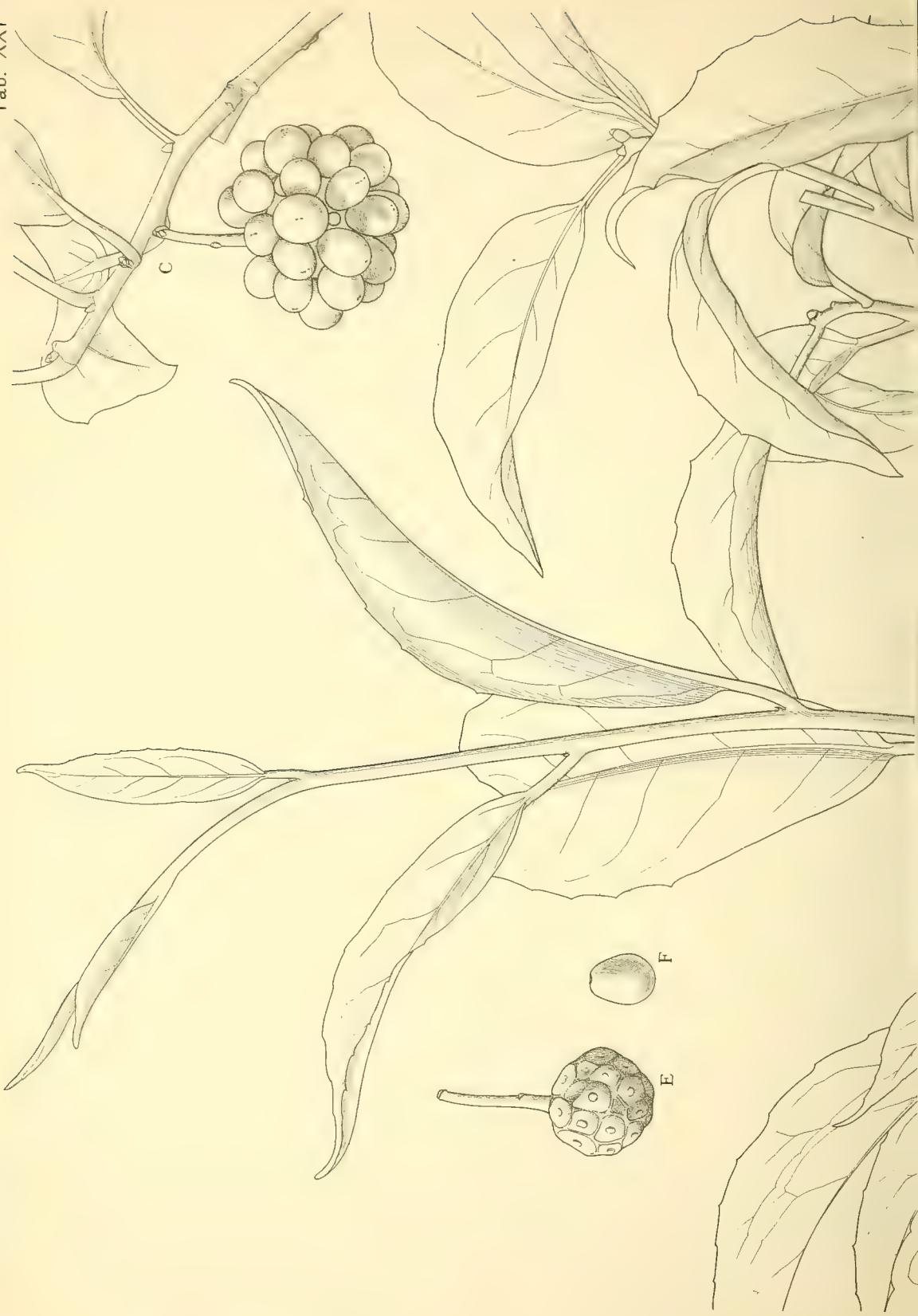


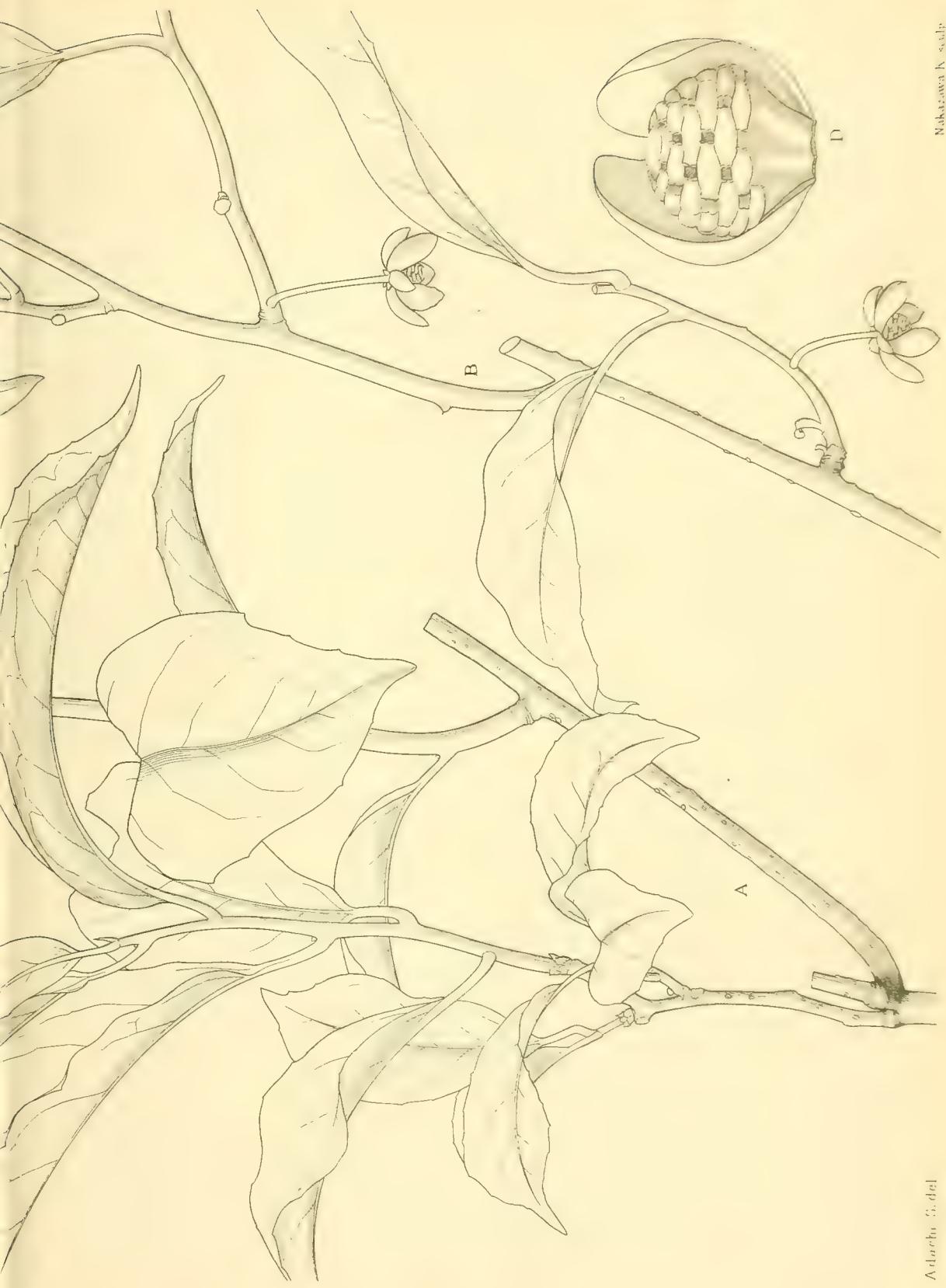
第 XXI 圖 Tabula XXI

さねかづら

Kadsura japonica DUNAL

A. 若枝ヲツクル枝 ($\times 1$)	A. Ramus cum innovationibus ($\times 1$)
B. 葉ト兩全花トヲ附クル枝 ($\times 1$)	B. Ramus cum foliis et floribus hermaphroditis ($\times 1$)
C. 葉ト果序トヲ附クル枝 ($\times 1$)	C. Ramus cum foliis et infructes- centia ($\times 1$)
D. 莖ト花瓣ノ大部分ヲ除去シタル花 (廓大)	D. Flos, ejus sepala et petala maxi- me seducta (aucta)
E. 果托ト花梗 ($\times 1$)	E. Torus fructus cum pedunculo ($\times 1$)
F.漿果 ($\times 1$)	F. Bacca ($\times 1$)





Aldrovad. G. del



第 XXII 圖 Tabula XXII

し き み

Illicium anisatum LINNÆUS

A. 花ト葉トヲ附クル枝 ($\times 1$)	A. Ramus cum foliis annotinis et floribus ($\times 1$)
B. 葉ト果實トヲ附クル枝 ($\times 1$)	B. Ramus cum foliis hornotinis et fructu ($\times 1$)
C. 種子 ($\times 1$)	C. Semen ($\times 1$)



. Adachi S. del.

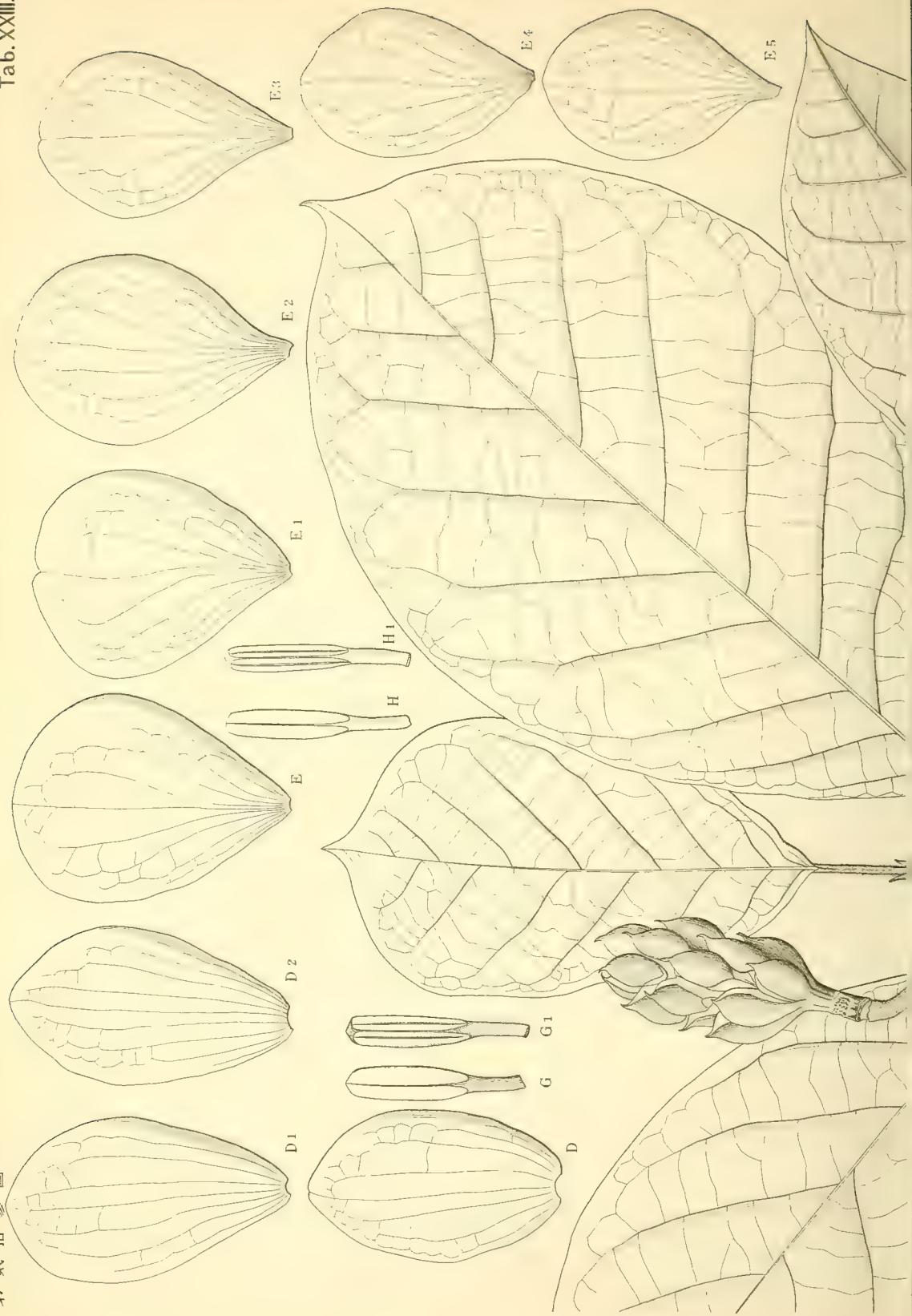
Matsudaira N. study.

第 XXIII 圖 Tabula XXIII

あほやまれんげ

Magnolia parviflora SIEBOLD & ZUCCARINI

A. 葉ト花ト未熟ノ果實トヲ附クル枝 ($\times 1$)	A. Ramus cum foliis, flore et fructibus immaturatis ($\times 1$)
B. 葉ト成熟シタル果實トヲ附クル枝 ($\times 1$)	B. Ramus cum foliis et fructibus maturatis ($\times 1$)
C. 葉ノ中央部ノ1部ヲ裏ヨリ見ル (廓大)	C. Pars mediana folii, infra visa (aucta).
D—D ₂ . 莖 ($\times 1$)	D—D ² . Sepala ($\times 1$)
E—E ₂ . 外列ノ花瓣 ($\times 1$)	E—E ₂ . Petala exteriora ($\times 1$)
E ₃ —E ₅ . 内列ノ花瓣 ($\times 1$)	E ₃ —E ₅ . Petala interiora ($\times 1$)
F—F ₁ . 第1列ノ雄蕊 ($\times 2$)	F—F ₁ . Stamina series primariæ ($\times 2$)
G—G ₁ . 第2列ノ雄蕊 ($\times 2$)	G—G ₁ . Stamina series secundariæ ($\times 2$)
H—H ₁ . 第3列ノ雄蕊 ($\times 2$)	H—H ₁ . Stamina series tertiae ($\times 2$)
I. 雄蕊ト雌蕊 ($\times 1$)	I. Andræcium et gynæcium ($\times 1$)







第 XXIV 圖 Tabula XXIV

乙 ぶ し

Magnolia kobus A. P. DE CANDOLLE

A. 葉ヲ附クル枝 ($\times 1$)

B. 花ヲ附クル枝 ($\times 1$)

A. Ramus cum foliis ($\times 1$)

B. Ramus cum flore ($\times 1$)



第 XXV 圖 Tabula XXV

し も く れ ん

Magnolia liliiflora DESROUSSEUX

A. 葉ヲ附クル枝 ($\times 1$)	A. Ramus cum foliis ($\times 1$)
B. 花ヲ附クル枝 ($\times 1$)	B. Ramus cum flore ($\times 1$)
C—C ₄ . 第 I—V 列ノ雄蕊ヲ内側ヨリ 見ル (廓大)	C—C ₄ . Stamina (ex serie primaria ad quinta), intus visa (aucta)
D—D ₄ . 第 I—V 列ノ雄蕊ヲ外側ヨリ 見ル (廓大)	C—C ₄ . Eadem, extus visa.
E. 花托ト雌蕊トヲ附クル枝 ($\times 1$)	E. Ramulus cum toro et gynæcio ($\times 1$)



昭和八年十二月二十八日印刷
昭和八年十二月三十日發行

朝鮮總督府林業試驗場

印 刷 者 島 連 太 郎

東京市神田區美土代町二丁目一番地

印 刷 所 三 秀 舍

東京市神田區美土代町二丁目一番地

963



3 9088 00041 7220

SMITHSONIAN INSTITUTION LIBRARIES